ORDER NO.VR0603007CE
B24

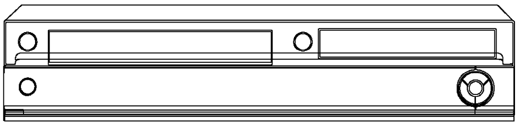
Service Manual

DVD Recorder

DMR-EH75VP

Vol. 1

Colour
(S)......................Silver Type



Notes: This model's RAM/Digital P.C.B.
Module is - RFKNEH75VP(P).

When replacing Power & Digital I/F P.C.B. or EEPROM, "UNFORMAT" indication is displayed and HDD must be formatted.

When replacing with HDD, it is necessary to update the firmware.
Please prepare the update disc.
(After that, FORMAT is necessary)

After that, programme in the HDD will be lost.
In detail, please refer to each content in this service manual.

Caution:
Pairing of RAM Drive and Digital P.C.B. as "RAM/ Digital P.C.B. Module" have to be replaced together.
If the pairing is changed, RAM Drive unit has to be re-aligned. Because the alignment data for RAM Drive Unit is stored in Digital P.C.B..

SPECIFICATIONS

Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

“DTS” and “DTS 2.0 + Digital Out” are trademarks of Digital Theater Systems, Inc.

Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, and 4,819,098, licensed for limited viewing uses only.

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MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

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⚠ WARNING
This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

1. Safety Precaution

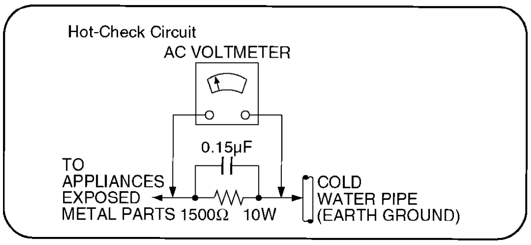
1.1. General guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage current cold check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M Ω and 5.2M Ω .
 When the exposed metal does not have a return path to the chassis, the reading must be ∞.

Figure 1



1.1.2. Leakage current hot check / (See Figure 1 .)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ, 10 watts resistor, in parallel with a 0.15µF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliampere. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

1.2. Caution for fuse replacement

(For English)
CAUTION:
Replace with the same type fuse:
(Manufacturer: Hollyland, Type:50T, 2A, 250V)

(For Canadian French)
ATTENTION:
Utiliser un fusible de rechange de même type:
(Fabricant: Hollyland, Type: 50T, 2A, 250V)

2. Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatic Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatic Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistor-sand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or

semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.

2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).**

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety. These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

2.2. Precaution of Laser Diode

CAUTION:

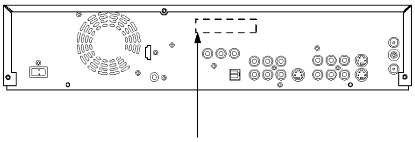
This product utilizes a laser diode with the unit turned “on”, invisible laser radiation is emitted from the pickup lens.
Wave length: 662 nm (DVDs)/780 nm (CDs)
Maximum output radiation power from pickup: 100 μ W/VDE
Laser radiation from the pickup lens is safety level,but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

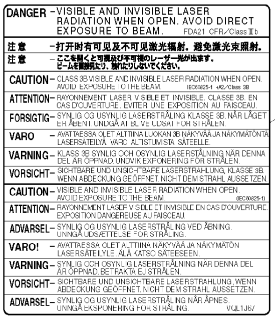
ACHTUNG:

Dieses Produkt enthält eine Laserdiode.
Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Laserinheit abgestrahlt.
Wellenlänge: 662 nm (DVDs)/780 nm (CDs)
Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE
Die Strahlung der Lasereinheit ist ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinheit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlinse blicken.
4. Nicht über längere Zeit in die Fokussierlinse blicken.



Product complies with DHHS Rules 21 CFR Subchapter J in effect at date of manufacture. Matsushita Electric Industrial Co., Ltd. Kadoma, Osaka, Japan



DANGER – VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. FDA21 CFR/Class Ⅱb

注 意 – 打开时有可见及不可见激光辐射。避免激光束照射。

注 意 – ここを開くと可視及び不可視のレーザー光が出ます。ビームを直接見たり、触れたりしないでください。

CAUTION – CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM. IEC60825-1 +A2/Class 3B

ATTENTION – RAYONNEMENT LASER VISIBLE ET INVISIBLE. CLASSE 3B. EN CAS D'OUVERTURE. EVITER UNE EXPOSITION AU FAISCEAU.

FORSIGTIG – SYNLIG OG USYNLIG LASERSTRÅLING KLASSE 3B. NÅR LÅGET ER ÅBENT. UNDGÅ AT BLIVE UDSAT FOR STRÅLEN.

VARO – AVATTAESSA OLET ALTTIINA LUOKAN 3B NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTEILYÄ. VARO ALTISTUMISTA SÄTEELLE.

VARNING – KLASS 3B SYNLIG OCH OSYNLIG LASERSTÅLNING NÄR DENNA DEL ÄR ÖPPNAD. UNDVIK EXPONERING FÖR STRÅLEN.

VORSICHT – SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, KLASSE 3B. WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

CAUTION – VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM. (IEC60825-1)

ATTENTION – RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.

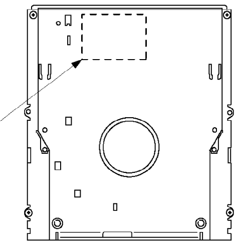
ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNNGÅ UDSÆTTELSE FOR STRÅLING.

VARO! – AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLE. ÄLÄ KATSO SÄTEESEEN.

VARNING – SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.

VORSICHT – SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING NÅR ÅPNES. UNNGÅ EKSPONERING FOR STRÅLING. VQL1J67



CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

2.3. Service caution based on legal restrictions

2.3.1. General description about Lead Free Solder (PbF)

The lead free solder has been used in the mounting process of all electrical components on the printed circuit boards used for this equipment in considering the globally environmental conservation.

The normal solder is the alloy of tin (Sn) and lead (Pb). On the other hand, the lead free solder is the alloy mainly consists of tin (Sn), silver (Ag) and Copper (Cu), and the melting point of the lead free solder is higher approx.30 degrees C (86°F) more than that of the normal solder.

Definition of PCB Lead Free Solder being used

The letter of “PbF” is printed either foil side or components side on the PCB using the lead free solder. **(See right figure)**	PbF

Service caution for repair work using Lead Free Solder (PbF)

- **The lead free solder has to be used when repairing the equipment for which the lead free solder is used.**
  (Definition: The letter of “PbF” is printed on the PCB using the lead free solder.)
- **To put lead free solder, it should be well molten and mixed with the original lead free solder.**
- **Remove the remaining lead free solder on the PCB cleanly for soldering of the new IC.**
- **Since the melting point of the lead free solder is higher than that of the normal lead solder, it takes the longer time to melt the lead free solder.**
- **Use the soldering iron (more than 70W) equipped with the temperature control after setting the temperature at 350±30 degrees C (662±86°F).**

Recommended Lead Free Solder (Service Parts Route.)

- **The following 3 types of lead free solder are available through the service parts route.**
  RFKZ03D01K-----------(0.3mm 100g Reel)
  RFKZ06D01K-----------(0.6mm 100g Reel)
  RFKZ10D01K-----------(1.0mm 100g Reel)

Note

*** Ingredient: tin (Sn), 96.5%, silver (Ag) 3.0%, Copper (Cu) 0.5%, Cobalt (Co) / Germanium (Ge) 0.1 to 0.3%**

2.4. How to replace the Lithium Battery

REPLACEMENT PROCEDURE

1. **Remove the Top case, VHS Mechanism, HDD Angle, Main P.C.B. and Battery Cover by referring the Disassembling Procedure.**
2. **Unsolder the Lithium Batteries: B7501 and then replace it into new one.**
   (As shown in 14.2.1. The Main P.C.B.)

NOTE:

The lithium battery is a critical component. (Type No.: CR2354-1GUF Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

3. Service Navigation

3.1. Service Information

This service manual contains technical information which will allow service personnel's to understand and service this model.
Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

1) This service manual does not contain the following information, because of the impossibility of sevicing at component level.

   * Schematic Diagram, Block Diagram and P.C.B. layout of RAM/Digital P.C.B. Module.
   * Parts List for individual parts of RAM/Digital P.C.B. Module.
   * Exploded View and Parts List for individual parts of RAM/Digital P.C.B. Module.

2) The following category are recycle module part. Please send them to Central Repair Center.

   * RAM/Digital P.C.B. Module (EH75VP: RFKNEH75VP)

4. Specifications

Power Supply		AC 120 V, 60 Hz
Power Consumption		Approx. 34 W
Power Consumption in standby mode		Approx. 16 W (Display ON) Approx. 15 W (Display OFF)
DVD	Recording system:	DVD-RAM: DVD Video Recording format DVD-R: DVD-Video format DVD-R DL (Dual Layer): DVD-Video format DVD-RW: DVD-Video format +R, +R DL (Double Layer), +RW
	Optical pick-up:	System with 1 lens, 2 integration units (wavelength: 662 nm for DVDs, 780 nm for CDs)
	Recordable discs:	DVD-RAM: Ver.2.0 Ver.2.1/3X-SPEED DVD-RAM Revision 1.0 Ver.2.2/5X-SPEED DVD-RAM Revision 2.0
		DVD-R: for General Ver.2.0 for General Ver.2.0/4X-SPEED DVD-R Revision 1.0 for General Ver.2.x/8X-SPEED DVD-R Revision 3.0 for General Ver.2.x/16X-SPEED DVD-R Revision 6.0 for DL Ver.3.0 for DL Ver.3.x/4X-SPEED DVD-R for DL Revision 1.0
		DVD-RW: Ver.1.1 Ver.1.1/2X-SPEED DVD-RW Revision 1.0 Ver.1.2/4X-SPEED DVD-RW Revision. 2.0
		+R: Ver.1.0 Ver.1.1 Ver.1.2 for DL Ver.1.0
		+RW: Ver.1.1 Ver.1.2/4X-SPEED
	Recording time:	Max. 8 hours (using 4.7 GB disc) XP: Approx. 1 hour SP: Approx. 2 hours LP: Approx. 4 hours EP: Approx. 6 hours/8 hours Max. Approx. 142 hours with HDD (EP 8H mode)
	Playable discs:	DVD-RAM: DVD Video Recording format DVD-R: DVD-Video format, DivX DVD-R DL (Dual Layer): DVD-Video format DVD-RW: DVD-Video format, DVD Video Recording format +R, +R DL (Double Layer), +RW, DVD-Video, DVD-Audio, CD-Audio (CD-DA), Video CD, CD-R/CD-RW (CD-DA, Video CD, MP3, JPEG, DivX)
	Others:	Region code : 1
	Video:	Recording system : MPEG2 (Hybrid VBR) Output : LINE (pin jack) x 1 1.0 Vp-p; 75 ohm S connector x 1 Y: 1.0 Vp-p; 75 ohm C: 0.286 Vp-p; 75 ohm Component video output : Y,PB,PR x 1 (480i/480p) Y: 1.0 Vp-p; 75 ohm PB: 0.7 Vp-p; 75 ohm PR: 0.7 Vp-p; 75 ohm
	Audio:	Recording system : Dolby Digital (2 ch) Linear PCM (XP mode 2 ch) Analog Output : LINE (pin jack) x 1 Reference outnput : 309 mVrms FS : 2 Vrms (1kHz, 0dB) Output impedance : 1 k ohm (Load impedance : 10 k ohm) Number of channels : Recording : 2 channels Playback : 2 channels Digital Output : Digital audio optical output connector x 1 (PCM, Dolby Digital, DTS)
LASER Spec.	Class 1 LASER Product	Wave Lengh: 780 nm (CDs), 662 nm (DVDs) Laser Power: No hazardous radiation is emitted with safety protection
Internal HDD Capacity		80 GB
VHS	Recording format:	VHS Video Cassette System Standard with FM audio
	Heads:	4 helical scan heads for video 2 helical scan heads for FM audio 1 fixed head for Normal audio
	Recording modes/ recording time:	SP: 33.35 mm/s, 120min EP: 11.12 mm/s, 360 min (with T-120 cassette)

DVD / VHS Common	Video:	Input : LINE (pin jack) x 2 1.0 Vp-p; 75 ohm S connector x 2 Y: 1.0 Vp-p; 75 ohm C: 0.286 Vp-p; 75 ohm Output : LINE (pin jack) x 1 1.0 Vp-p; 75 ohm
	Audio:	Input : LINE (pin jack) x 2 Reference input : 309 mVrms FS : 2 Vrms (1kHz, 0dB) Input impedance : 22 k ohm Output : LINE (pin jack) x 1 Reference outnput : 309 mVrms FS : 2 Vrms (1kHz, 0dB) Output impedance : 1 k ohm (Load impedance : 10 k ohm) Number of track (for VHS) : HiFi : 2 track Normal : 1 track
Television system	TV system:	NTSC system, 525 lines, 60 fields
	Antena reception inputt:	TV Channel: VHF: 2ch - 13 ch UHF: 14ch - 69ch CATV Channel: 5A & A -5ch - EEEch
HDMI Output		19 pin typeA x 1 HDMI Ver. 1.2a (EDID Ver.1.3)
DV Input		IEEE 1394 Standard, 4pin x 1
G-LINK terminal		Only use the included IR Blaster
SD System	SD Card slot Still Picture (JPEG, TIFF):	SD memory card slot: 1pc
	Compatible Media:	SD memory card */Multi Media Card *Includes miniSD™ cards. (A miniSD™ card adapter needs to be inserted.)
	Format:	FAT12, FAT16
	Image file format:	JPEG conforming DCF (Design rule for Camera File system) TIFF (Uncompressed RGB chunky) DPOF Compatible sub sampling; 4:2:2 or 4:2:0
	Number of pixels:	Between 34 x 34 pixels and 6144 x 4096 pixels
	Thawing time:	Approx. 3sec (6M pixels, JPEG)
SD Video (MPEG2)		
Compatible Media		SD memory card */Multi Media Card *Includes miniSD™ cards. (A miniSD™ card adapter needs to be inserted.)
Codec		MPEG2 (SD-Video Entertainment Video Profile)
File format		SD-Video format conforming
Video Recording conversion and transfer is possible from card to HDD or DVD-RAM disc. After Video Recording conversion and transfer to HDD or DVD-RAM disc, the playback is possible.		
Quick Start for Recording & EPG Display (Quick Start: ON)		About 1 Sec. Quick Start for Recording & EPG Display (when connecting to TV using Video or S-Video terminal) *From the power on, recording starts in about 1 second after the REC button is pressed. If the TV GUIDE button is pressed while the unit is off, the Electromic Program Guide(EPG) starts displaying in less than 1 second, with the full EPG displaying in about 1.5 seconds.
Dimensions (W) × (H) × (D)		Approx. 430 (W) × 84 (H) × 343 (D) mm [Approx. 16 15/16"(W) × 3 5/16" (H) × 13 1/2" (D)]
Mass		Approx. 6.8 kg (15 lbs)
Operating Temperature		5 °C - 40 °C (41 °F - 104 °F)
Operating Humidity		10%–80% RH (no condensation)
Clock unit		Quartz - controlled 12 - hour digital display
Solder		This model uses lead free solder (PbF).

Notes: Mass and dimensions are approximate.

Specifications are subject to change without notice.

5. Features

5.1. About DivX

5.1.1. General

DivX is a new video compressing format that is applied MPEG4 technology to improve image quality and the compressibility, and it is developed by the DivXNetworks, Inc., Video file of high resolution and the high picture quality can be made though it is a high compressibility.

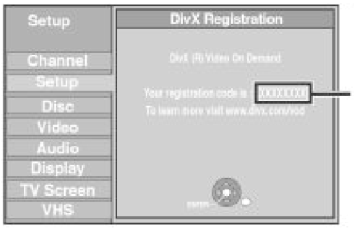
DivX codec is necessary for converting video to DivX file and .playback files made.

5.1.2. Operating Instructions about DivX Video-on-Demand Content

DivX Video-on-Demand (VOD) content is encrypted for copyright protection. In order to play DivX VOD content on this unit, you first need to register the unit.

Follow the on line instructions for purchasing DivX VOD content to enter unit's registration code and register unit. Visit www.divx.com/vod for more information.

Display unit's registration code.



DivX (R) Video On Demand

Your registration code is : XXXXXXXX

To learn more visit www.divx.com/vod

8 alphanumeric characters

- **We recommend that you make a note of this code for future reference.**
- **After playing DivX VOD content for first time, another registration code is then displayed in "DivX Registration". Do not use this registration code to purchase DivX VOD content. If you use this code to purchase DivX VOD content, and then play content on this unit, you will no longer be able to play any content that you purchased using previous code.**
- If you purchase DivX VOD content using a registration code different from this unit's code, you will not be able to play this content. ("Authorization Error" is displayed.)

Regarding DivX content that can only be played a set number of times

Some DivX VOD content can only be played a set number of times.

When you play this content, remaining number of plays is displayed. You cannot play this content when number of remaining plays is zero. ("Rental Expired" is displayed.)

When playing this content

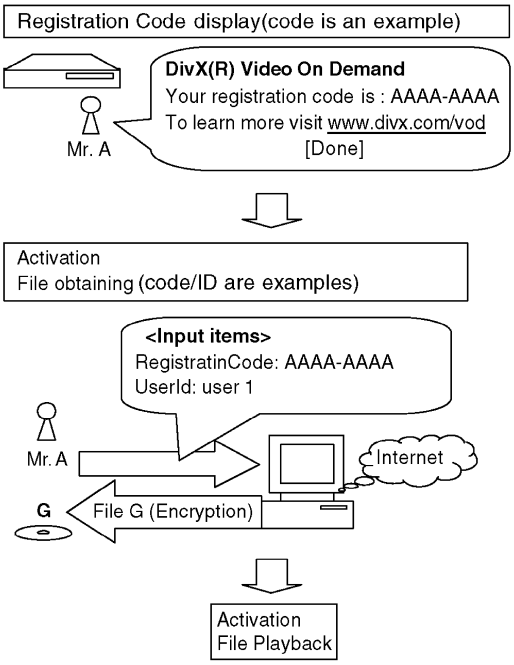
- Number of remaining plays is reduced by one if
  -you press [POWER].
  -you press [STOP].
  -you press [◀◀ SKIP], [◀◀ SLOW/SEARCH] or [▶▶ SLOW/SEARCH] etc. and arrive at another content or start of content being played.
  -scheduled recording starts on HDD.
  -you press [DRIVE SELECT] to change drive.

* Resume functions do not work.

Typical Playback procedure of DivX VOD (Video On Demand)

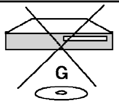
Case 1	When DivX VOD is used newly.
Case 2	When EEPROM or P.C.B. including EEPROM was replaced for repairing.
Case 3	When recorder was exchanged to another recorder for repairing.
Case 4	When customer own second recorder
Case 5	When owner of recorder was changed to another.

Case 1. When DivX VOD is used newly.


Registration Code display(code is an example)
Mr. A
Activation
File obtaining (code/ID are examples)
Mr. A
Internet
G
File G (Encryption)
Activation
File Playback

DivX(R) Video On Demand
Your registration code is : AAAA-AAAA
To learn more visit www.divx.com/vod
[Done]

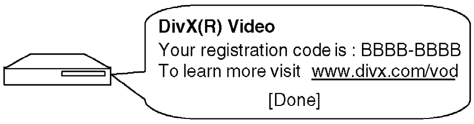
<Input items>
RegistratinCode: AAAA-AAAA
UserId: user 1



Activation cannot be done for other recorders by file G.

<Activation>
Recorder is set for user 1
→File G can be played back

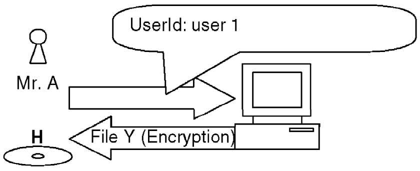
Registration Code display(code is an example)



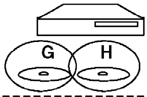
DivX(R) Video
Your registration code is : BBBB-BBBB
To learn more visit www.divx.com/vod
[Done]

***The code different from code before Activation is displayed.**
(This code is unnecessary for Mr. A)

Ovtainment /Playback of additional file after Activation (code/ID is an example)

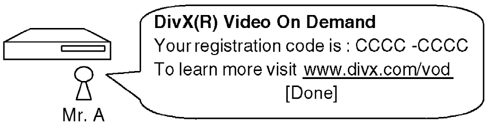


File of user 1 can be played back



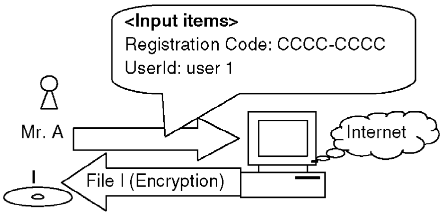
Case 2	**When EEPROM or P.C.B. including EEPROM was replaced for repairing.**
Case 3	**When recorder was exchanged to another recorder for repairing.**

New Registration Code is displayed
(Code is an example)



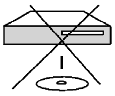
DivX(R) Video On Demand
Your registration code is : CCCC -CCCC
To learn more visit www.divx.com/vod
[Done]

Activation
File obtaining (code/ID are example)



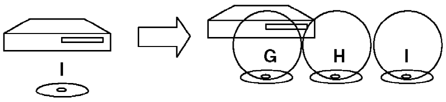
<Input items>
Registration Code: CCCC-CCCC
UserId: user 1

Activation File Playback

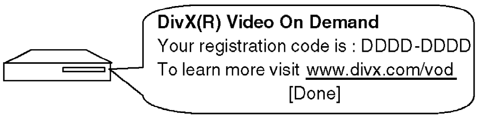


Activation cannot be done for other recorders by file I.

<Activation>
Recorder is set for user 1
→File G, H, I can be played back



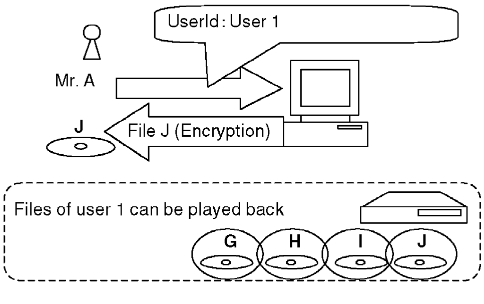
Registration Code display after Activation (example)



DivX(R) Video On Demand
Your registration code is : DDDD-DDDD
To learn more visit www.divx.com/vod
[Done]

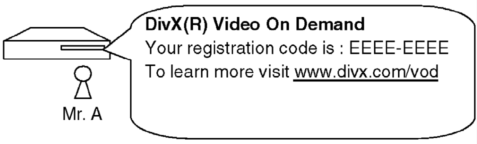
The code different from code before Activation is displayed.
(This code is unnecessary for Mr. A)

Obtainment /Playback of additional file after Activation (code/ID is an example)

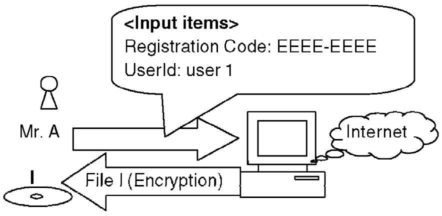

UserId : User 1
Mr. A
J
File J (Encryption)
Files of user 1 can be played back
G
H
I
J

Case 4	**When customer own second recorder**

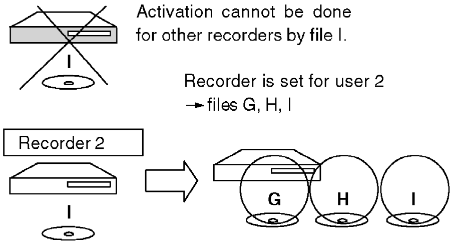
Registration Code display of second recorder (code is an example)


DivX(R) Video On Demand
Your registration code is : EEEE-EEEE
To learn more visit www.divx.com/vod
Mr. A

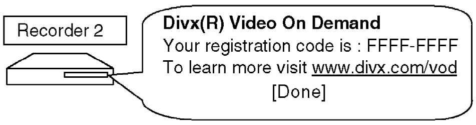
Activation
File obtaining (code/ID are example)


<Input items>
Registration Code: EEEE-EEEE
UserId: user 1
Mr. A
Internet
I
File I (Encryption)

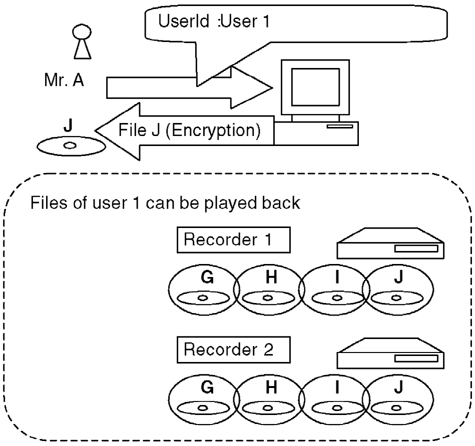
Activation
File Playback


Activation cannot be done for other recorders by file I.
I
Recorder is set for user 2
→files G, H, I
Recorder 2
I
G
H
I

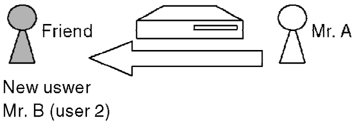
Registration Code display after Activation (example)


Recorder 2
Divx(R) Video On Demand
Your registration code is : FFFF-FFFF
To learn more visit www.divx.com/vod
[Done]

Obtainment /Playback of additional file after Activation (code/ID is an example)


UserId :User 1
Mr. A
J
File J (Encryption)
Files of user 1 can be played back
Recorder 1
G
H
I
J
Recorder 2
G
H
I
J

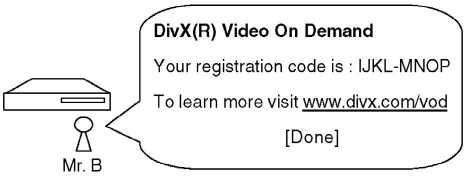
Case 5	**When owner of recorder was changed to another.**


Friend
Mr. A
New uswer
Mr. B (user 2)

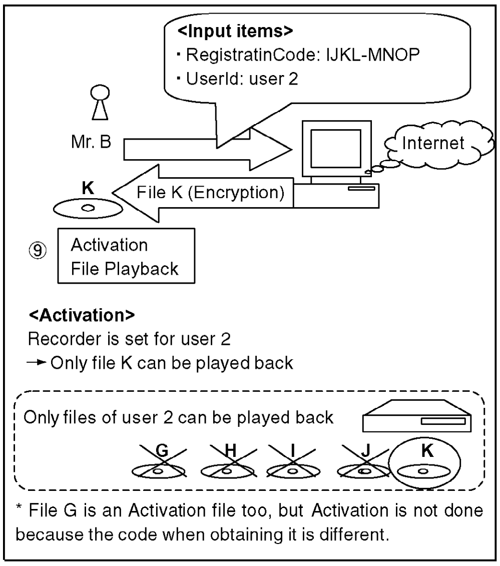
It is necessary to update information on the recorder

⑦ Activation

Registration Code is displayed


DivX(R) Video On Demand
Your registration code is : IJKL-MNOP
To learn more visit www.divx.com/vod
[Done]
Mr. B

⑧ Activation
File obtaining (code/ID are example)


<Input items>
· RegistratinCode: IJKL-MNOP
· UserId: user 2
Mr. B
Internet
K
File K (Encryption)
⑨
Activation
File Playback
<Activation>
Recorder is set for user 2
→ Only file K can be played back
Only files of user 2 can be played back
G
H
I
J
K
* File G is an Activation file too, but Activation is not done because the code when obtaining it is different.

File kind

(There are two kind of Activation files as follows too.)

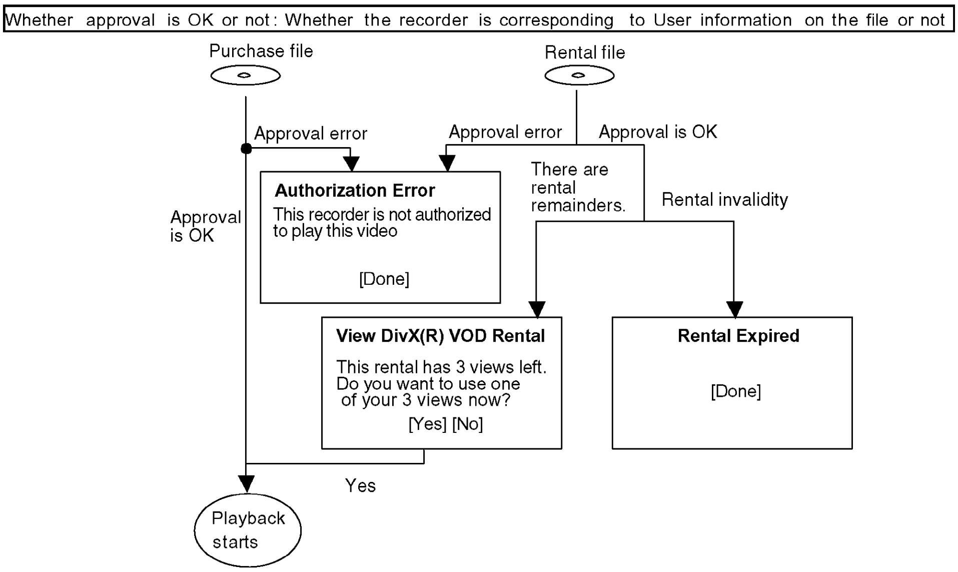
· Rental : There is a playback limitation

· Purchase : Unrestricted

Also there is next file as DRM files besides the above-mentioned.

·Base: It is not necessary to approve though the contents is being encoded. → If it is recorder/player for DRM, any can play back. (It is the same as usual DivX file when seeing from user.)

Screen shift (Error display)


Whether approval is OK or not : Whether the recorder is corresponding to User information on the file or not
Purchase file
Rental file
Approval error
Approval error
Approval is OK
Approval is OK
There are rental remainders.
Rental invalidity
Authorization Error
This recorder is not authorized to play this video
[Done]
View DivX(R) VOD Rental
This rental has 3 views left. Do you want to use one of your 3 views now?
[Yes] [No]
Rental Expired
[Done]
Yes
Playback starts

5.1.3. About DivX DRM

Divx file includes file to which DRM(Digital Right Management) is applied and file not applied. This item is a content that relates only in treating file to which DRM is applied.

1. Registration Code display function

2. User's registration and approval function

3. Rental management function

1) Registration Code display function

Registration Code is alphanumeric character sequence 8bytes inputted as recorder information, in case a use purchases or rent a DivX DRM file in a network.

Registration code is a character sequence generated at random, and differs in each recorder.

Moreover, Registration code is updated by new user authentication ever if same recorder.

2) User's registration and approval function

- Only one user can register for one recorder. If user's registration is not done with the recorder, DivX file cannot be played back.
- User's registration is performed only when a DivX DRM file is first chosen by recorder
- DivX DRM file that can perform user's registration is only a file that is registered Registration Code and purchased or rented.
- User authentication is performed whenever DivX DRM file is played back.

  Error message is displayed when failing in user's registration and approval.

3) Rental management function

There are purchase file without registration of number of playback and rental files with registration of number of playback as Divx file. Number of playback of rental file is counted by the recorder.

When rental file is played, remaining number of times that can be played back will be shown to users, recorder requests users to input yes or no.

Following specifications have been installed for the rental files in the purpose to clarify the count condition of number of times of playback.

- Conditions on counting number of times of play.

1. When a file was opened successfully. (At the time of playback start)
2. When you have done review operation from the start. (Skip to file head)

   - At this time, remaining number of times that can be played back and confirmation message [Do you play really?] are displayed.
   - When the playback point has been skipped to the top of title, number of playback is not counted if the top of title was not recognized.
   - Even if the power failure occurs after start of playback of rental file, number of times of playback counted at start of the playback is held as it is. (Though playback stops by power failure, the number of times of playback is not counted.)

When it has reached head of title, the playback is ended, and screen becomes DivX menu (There is no resume) and then cursor is located on title that has been played back.
Then if the same file was continuously played back, it begins to playback from the file head.

Note:
Above mentioned stored user information and number of times of playback are not erased by update of firmware or by initialization by test mode.

5.2. HDAVI Control (HDMI Link)

Linked operations by HDAVI Control (HDMI Link)

5.2.1. What is HDMI

HDMI is abbreviation of [High-Definition Multimedia Interface], and is digital interface standard for next generation TV corresponding to follows.

1. Non-compressing high quality digital image
2. Digital transmission of multi channel digital audio.
3. Two way communication of control signal of control straightening between equipments

Cable	Transmission method	Directionality	Transmission signal	Feature
HDMI Cable	Digital (~4.455Gbps)	One-way	Digital image (non-compression high-definition television image)	Clock line in one system and data line in three systems can high-speed communicate high reliability because of balance communication that uses three respectively every one system. Moreover, because high-speed data line in three systems can be used at same time, it has ten of other digital cables times or more transmission ability. And can transmit high-definition television image of non-compression, 24 bit high sound quality PCM voice of multi-CH of DVD audio (to 6ch) and Bit stream signal of surround to 8ch of DVD video (5.1ch, 6.1ch, and 7.1ch, etc.) as a digital signal of no deterioration. It has power supply line and a interactive control signal line communication independent of AV signal, aCd can an advanced control between equipments. Therefore it can correspond to making of AV equipment in the future highly a network
		One-way	Digital Audio (6ch/24 bit high sound quality PCM of DVD audio/ Bit stream of surround to 8ch of DVD video)	
		Interactive	Digital control signal (Advanced control between equipments)	

Pin Name

No	Pin Name
1	TMDS Data2(+)
2	TMDS Data2(shield)
3	TMDS Data1(-)
4	TMDS Data1(+)
5	TMDS Data1(shield)
6	TMDS Data2(-)
7	TMDS Data0(+)
8	TMDS Data0(shield)
9	TMDS Data0(-)
10	TMDS Clock(+)
11	TMDS Clock(shield)
12	TMDS Clock(-)
13	CEC (Linked operation control)
14	NC
15	SCL
16	SDA
17	Ground
18	+5v Power
19	Hot Plug Detect

Pin layout of plug of HDMI cable seen from outside.

1	3	5	7	9	11	13	15	17	19
2	4	6	8	10	12	14	16	18	Shell

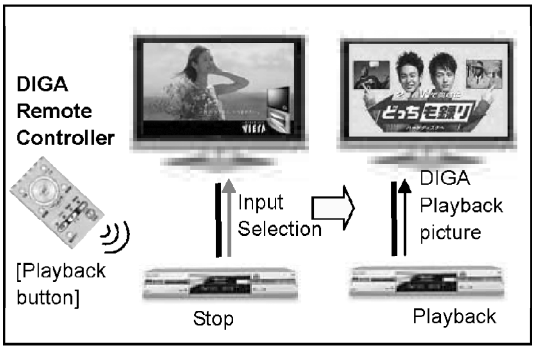
5.2.2. Link functions with Equipments Corresponding Table

Functions
(1) Automatic Input switch
(2) Link of Power

In case setting of [FUNCTIONS] → [Setup] → [TV Screen] → [Functions of HDMI] → [Control with HDMI] are on, all above equipments Link functions are effective.

5.2.3. Outline of Equipments Linked functions

(1) Automatic Input switch
At starting of playback/ GUI display by DIGA, it turns on power of VIErA, and it displays picture of DIGA onto screen of VIErA.
Starting of playback:
It includes automatic playback of DVD-Video and so on. And it includes picture of screen saver too.
GUI display:
FUNCTIONS, DIRECT NAVIGATOR, TV PROGRAM, PROG/CHECK, Timer Recording, G-code, Initial setting, Playback setting, Play list, SD/DVD guide, Warning messages that user can select and so on.



(2) Seamless GUI

1. **Automatic switching to DIGA functions from VIErA functions**
   When [operate DIGA] of VIErA functions is selected, input of VIErA is switched to DIGA input automatically and it displays DIGA functions.

2. **Automatic switching to VIErA operation menu from DIGA operation menu**
   It is function that DIGA operation menu is switched off and VIErA operation menu is switched on when [RETURN] button of VIErA remote controller is pressed while first stage of DIGA operation menu is being displayed,

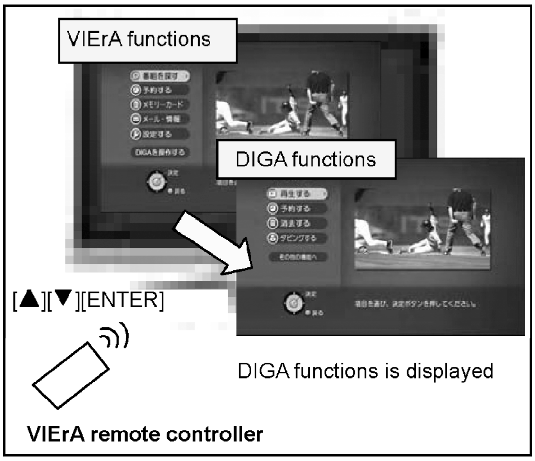
3. Automatic switch off of GUI display of DIGA when VIErA input selection/ VIErA operation menu is displayed

GUI of DIGA is turned off when VIErA input selection is performed while GUI of DIGA is being displayed.And GUI of DIGA is turned off and VIErA operation menu is displayed when VIErA operation menu is displayed while GUI of DIGA is being displayed.

GUI Display:

Erasable GUI displays above are limited to screen that are erasable by RETURN button in DIRECT NAVIGATOR/ TV GUIDE/ FUNCTIONS/ PROGRAM CHECK/ INITIAL SETTING.

However GUI displays that are not erasable by RETURN button in FORMAT process/ ERASE process/ DUBBING process/ FINALIZE process/ CUTION displayed are kept displaying.

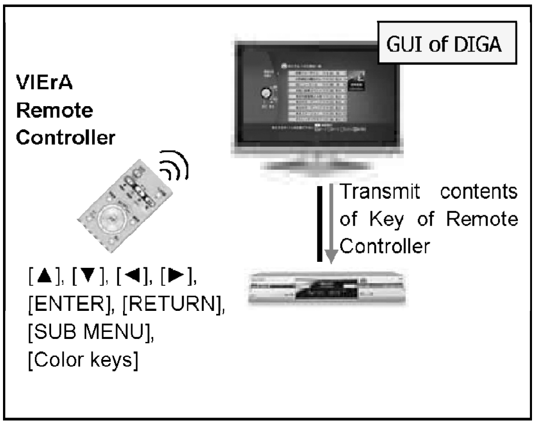


(3) Remote Control Operation

Function that operate DIGA by VIErA remote controller when DIGA screen is displayed on VIErA,

- Buttons of Remote Controller that can be operate by VIErA remote controller:

▲, ▼, ◀, ▶, ENTER, RETURN, SUB MENU


GUI of DIGA
VIErA
Remote
Controller
Transmit contents of Key of Remote Controller
[▲], [▼], [◄], [►],
[ENTER], [RETURN],
[SUB MENU],
[Color keys]

(4) Power Link

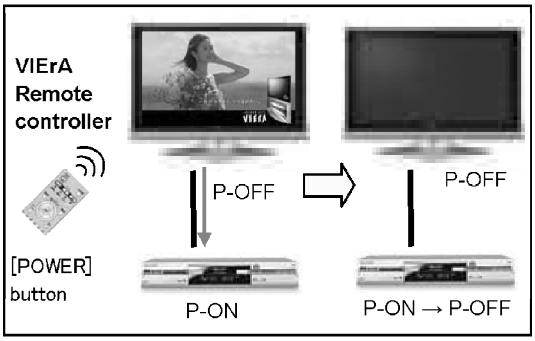
Power of DIGA is turned off linking to POWER OFF of VIErA.

- Power of DIGA is not turned on linking to POWER ON of VIErA.
- It is limited in following cases that DIGA links to POWER OFF of VIErA.

1. During EE display (While Timer recording is being executed/ Functions is being displayed are included.)
2. Case that DIGA is playing back (only North America/ Japan)

However except cases below.

- During EE display, but manual recording is being executing/ during EXT_Link recording.
- During Tray is being opened.
- Case that DIGA is in status that power cannot turn off (during dubbing, during finalize).


VIErA
Remote
controller
[POWER]
button
P-OFF
P-ON
P-OFF
P-ON → P-OFF

(5) Timer Recording (Reservation Recording)

When select [Reserve] of TV GUIDE of VIErA, Reservation information is transmitted by way of HDMI (HDAVI Control), and reservation registration of DIGA is done.

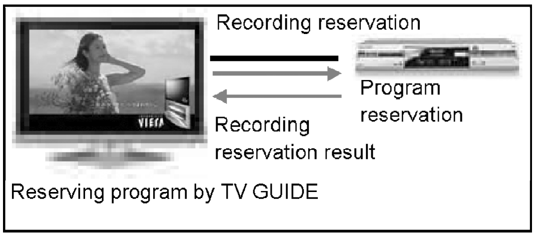
- In DIGA, it treats as well as a usual program reservation and Timer

Recording reservation.

- Linking reservation from VIErA is not done.

- Recordable media is fixed to HDD

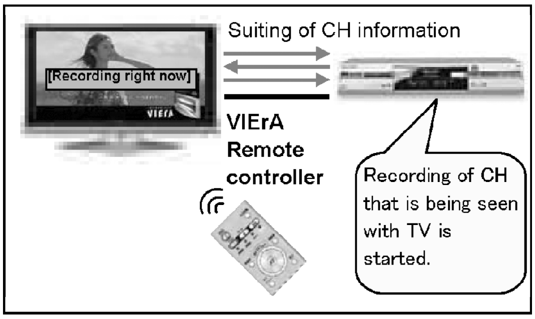
- Recording mode of digital program is fixed to DR and recording mode of analog program is fixed to SP mode.


Recording reservation
Program reservation
Recording reservation result
Reserving program by TV GUIDE

(6) Recording right now

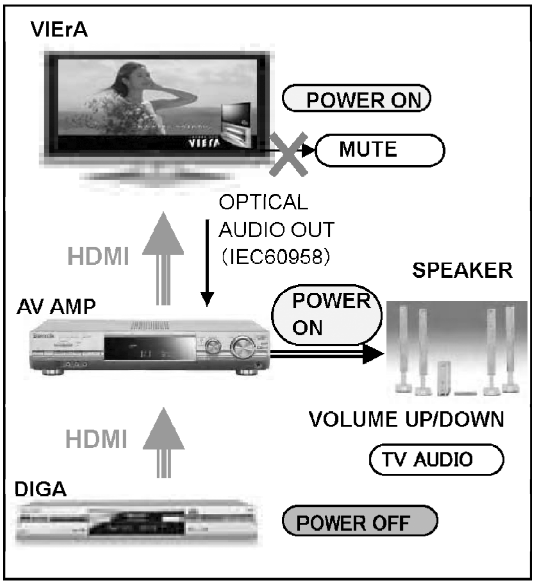
When [REC RIGHT NOW] is selected on GUI of VIErA, CH that is being seen is recorded by DIGA.And when [STOP RIGHT NOW] is selected on GUI of VIErA, recording of DIGA is stopped.

- Function of [recording right now] is based on manual recording of DIGA. But recordable media is fixed to HDD.
Recording mode is same as latest mode, similarly to manual recording.


Suiting of CH information
[Recording right now]
VIErA Remote controller
Recording of CH that is being seen with TV is started.

(7) Link with Amp

In system including DIGA, VIErA, Amplifier or Theater, when [ONE TOUCH THEATER PLAYBACK] button was pressed, VIErA POWER ON/ Input switch/ audio mute is set automatically, and audio sound is output from speaker connected amp.


VIErA
POWER ON
MUTE
OPTICAL
AUDIO OUT
(IEC60958)
HDMI
SPEAKER
AV AMP
POWER
ON
VOLUME UP/DOWN
HDMI
TV AUDIO
DIGA
POWER OFF

6. Location of Controls and Components

6.1. Each Buttons

7. Operation Instructions

7.1. (DVD) Taking out the Disc from RAM-Drive Unit when the Disc cannot be ejected by OPEN/CLOSE button

7.1.1. (DVD) Forcible Disc Eject

7.1.1.1. (DVD) When the power can be turned off.

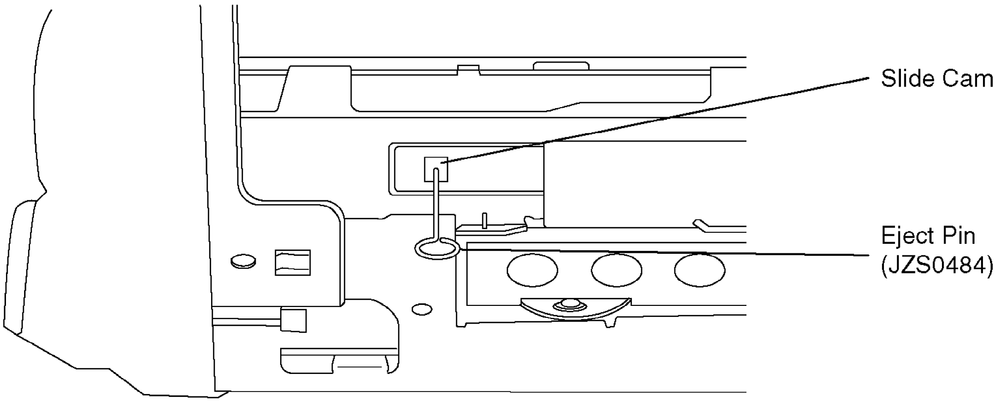
1. Turn off the power and press [STOP], [CH UP] keys on the front panel simultaneously for 5 seconds.

7.1.1.2. (DVD) When the power can not be turned off.

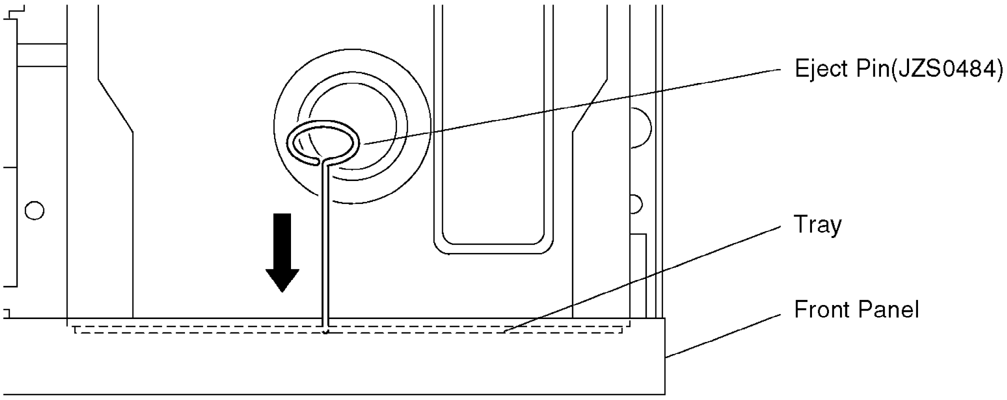
1. Press [POWER] key on the front panel for over 10 seconds to turn off the power forcibly, and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.

7.1.2. (DVD) When the Forcible Disc Eject can not be done.

1. Turn off the power and pull out AC cord.
2. Remove the Top Case.
3. Push in SLIDE CAM by Eject Pin(JSJ0484) or minus screw driver (small) to eject tray slightly.



4. Push out Tray by Eject Pin (JZS0484) or minus screw driver (small).



7.2. (VHS) Removing Cassette Tape manually

When the cassette tape could not be uninstalled from an electrical malfunction, there are 2 ways to remove a cassette tape.

7.2.1. (VHS) Removal by compulsory unloading.

If Service Mode can be activated when the power can not be turned on, this operation is able.

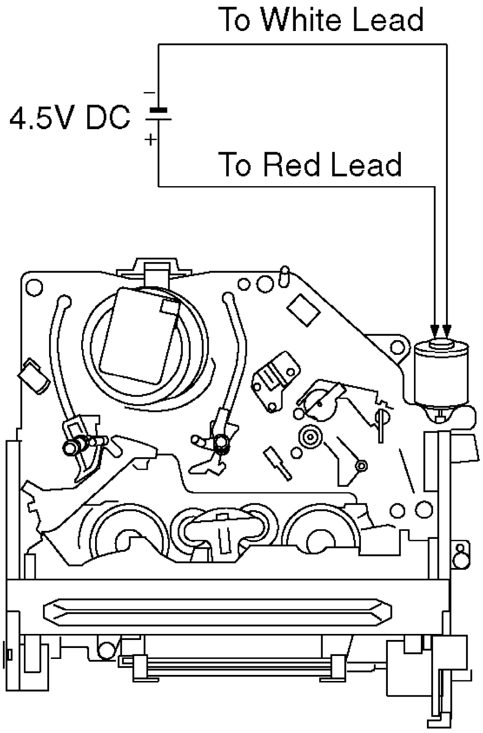
1. **Press [STOP] and [EJECT] button simultaneously for more than 3 seconds and set the Service Mode to 7.**
2. **Press [STOP] button in order to unload the mechanism. (Pay attention to tape slack)**
   Service Mode Display:
   7 ** ** (STOP) → 7 0L ** (EJECT)

7.2.2. (VHS) Removal by manual operation by rotating the Loading Motor with the batteries.

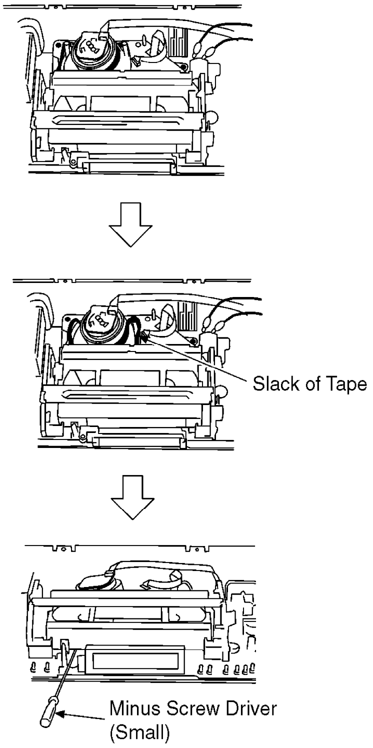
1. **Disconnect the AC plug, and remove the Top Panel and the Front Panel by referring to the Disassembly Procedures.**

2. **Connect three batteries (1.5V spec.) to the Loading Motor in series for supplying 4.5V to rotate the Loading Motor as shown below.**

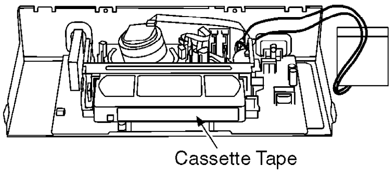
CONNECTION for UNLOADING



3. **Stop unloading just before unloading will be completed as shown below, and then the tape becomes slack as shown below.**
4. **Rotate the S-Reel by a small minus screwdriver to remove the slack tape as shown below.**


Slack of Tape
Minus Screw Driver
(Small)

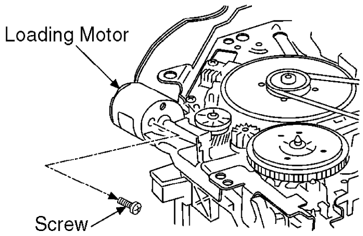
5. Then unload again to remove the cassette tape as shown below.


Cassette Tape

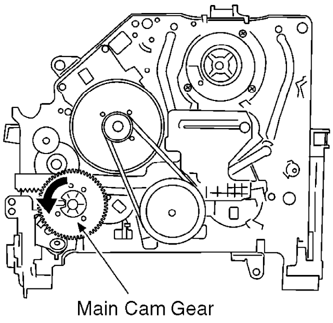
7.2.3. (VHS) Take out Cassette Tapemanually after removing the mechanism

1. Disconnect the AC plug, and remove the Top Case, Front Panel and the Mechanism by referring to "10 Assembling and Disassembling"

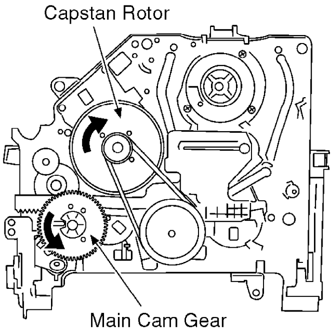
2. Remove the Screw and remove the Loading Motor as shown below.


Loading Motor
Screw

3. Rotate the Main Cam Gear counter-clockwise until just before the unloading will be completed as shown below. .


Main Cam Gear

4. **Rotate the Capstan Motor clockwise to remove the slack tape as shown below.**
5. **Rotate the Main Cam Gear counter-clockwise again to remove the cassette-tape as shown below.**


Capstan Rotor
Main Cam Gear

6. **Attach Loading Motor and tighten the screw.**
7. **Set the Position Switch to EJECT POSITION certainly and attach the mechanism to chassis as shown below.**

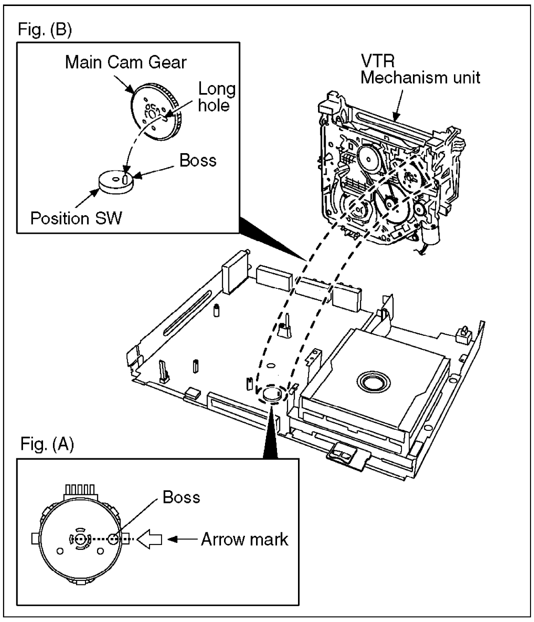


Fig. (B)
Main Cam Gear
Long hole
Boss
Position SW
VTR Mechanism unit
Fig. (A)
Boss
Arrow mark

8. Service Mode

8.1. (DVD) Self-Diagnosis and Special Mode Setting

8.1.1. (DVD) Self-Diagnosis Functions

Self-Diagnosis Function provides information for errors to service personnel by “Self-Diagnosis Display” when any error has occurred.
U, H** and F** are stored in memory and held.**
You can check latest error code by transmitting [0] [1] of Remote Controller in Service Mode.
Automatic Display on FL will be cancelled when the power is turned off or AC input is turned off during self-diagnosis display is ON.

Error Code	Diagnosis contents	Description	Monitor Display	Automatic F
U30	**Remote control code error**	**Display appears when main unit and remote controller codes are not matched.**	**No display**	SET * **“*” is remote c** **code of the ma** **Display for 5 s**
U59	**Abnormal inner temperature detected**	**Display appears when the drive temperature exceeds 70°C.** **The power is turned off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speed for the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.**	**No display**	U59 **“U59 is display** **minutes.**
U61	**The unit is carrying out its recovery process.** (with no disc in the disc tray)	· The unit detected an error while recording or playing with no disc in the disc tray. The unit is carrying out its recovery process. This process restores the unit to normal operation. The unit is not broken. Wait until the message disappears.	**No display**	U61
U88	**The unit is carrying out its recovery process.** (with a disc in the disc tray)	· The unit detected an error while recording or playing with a disc in the disc tray. The unit is carrying out its recovery process. This process restores the unit to normal operation. The unit is not broken. Wait until the message disappears.	**No display**	U88
U99	**Hang-up**	**Displayed when communication error has occurred between Main microprocessor and Timer microprocessor.**	**No display**	U99 **Displayed is le** **[POWER] key i**

Error Code	Diagnosis contents	Description	Monitor Display	Automatic F
H19	**Inoperative fan motor**	**When inoperative fan motor is detected after powered on, the power is turned off automatically.** **The event is saved in memory.**	**No display**	**No display**
F00	**No error information**	**Initial setting for error code in memory** **(Error code Initialization is possible with error code initialization and main unit initialization.)**	**No display**	**No display**
F09	**Serial Communication Error between VHS Microprocessor and Timer Microprocessor.**	**Please confirm Serial Communication terminal of Microprocessor.** **NOTE:** **If F09 appears just after updating Firmware, pull off and insert AC plug, then it will disappear.**	**No display**	F09
F34	**Initialization error when main microprocessor is started up for program recording**	**When initialization error is detected after starting up main microprocessor for program recording, the power is turned off automatically.** **The event is saved in memory.**	**No display**	**No display**
F58	**Drive hardware error**	**When drive unit error is detected, the event is saved in memory.**	**No display**	**No display**
F60	**DVD module has not been started.**	**Defect of Digital P.C.B.** **Mode: No change**	**No display**	F60
UNSUPPORT	**Unsupported disc error**	*An unsupported format disc was played, although the drive starts normally. *The data format is not supported, although the media type is supported. *Exceptionally in case of the disc is dirty.	**“This disc is incompatible.”**	UNSUP ↓ PORT **Display for 5 s**
NO READ	**Disc read error**	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	**“Cannot read. Please check the disc.”**	NOREAD

Error Code	Diagnosis contents	Description	Monitor Display	Automatic F
HARD ERR	Drive error	The drive detected a hard error.	“DVD drive error.”	Display for 5 s HARD ↓ ERR
IR ERR	IR communication error	[IR ERR] is displayed when communication between Timer microprocessor and IR microprocessor fails.	No display	IR ERR
No REC	Recording is impossible	[No REC] is displayed when recording is impossible due to the defect, dirt or wound of media.	No display	No REC
SELF CHECK	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, there is the possibility that defective Digital P.C.B. / RAM drive.	No display	SELF ↓ CHECK
PLEASE WAIT	Unit is in termination process	Unit is in termination process now. “BYE” is displayed and power will be turned off. In case “Quick Start” of setup menu is ON, it is displayed in restoration operation for AC off.	No display	PLEASE ↓ WAIT
UNFORMAT	Unformatted disc error	You have inserted an unformatted DVD-RAM or DVD-RW that is unformatted or recorded on other equipment.		UNFOR ↓ MAT

Error Code	Diagnosis contents	Description	Monitor Display	Automatic F
HDD ERROR	[HDD ERR] is displayed when start up of HDD was failed. (Except error of setting of Power on Stand-by)	a) When normal start up was failed. b) When start up at HDD boot was failed. c) When start up from state of P-OFF was failed. d) When start up from state of HDD SLEEP was failed. [HDD ERR] is displayed when above each start up of HDD was failed. *In case b), tary opens automatically and [HDDERR] is displayed until version up disc is inserted.	No display	HDDERR
HDD NG	Power on Stand-by setting error	[HDD NG] is displayed when power on Stand-by setting of HDD is NG or when HDD which power on Stand-by is not set to is used. Please try to replace HDD with junine HDD as service parts.	No display	HDD NG

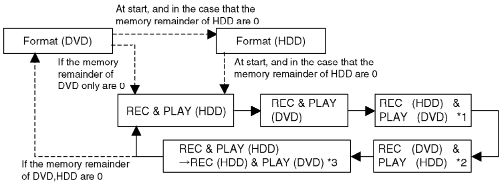
8.1.2. (DVD) Special Modes Setting

Item		FL display	Key opera
Mode name	Description		Front K
TEST Mode	*All the main unit's parameters (include tuner) are initialized.	TEST L1	Press [VHS to D DUBBING], [RE [OPEN/CLOSE] simultaneously seconds when p off.
Rating password	The audiovisual level setting password is initialized to “Level 8”.	INIT	Set DRIVE SELE [DVD]. While the open, press [RE [PLAY] simultan 5 seconds.
Service Mode	Setting every kind of modes for servicing. *Details are described in “8.1.3. (DVD) Service Modes at a glance ”.	SERV	When the powe press [VHS to D DUBBING], [OP CLOSE] and [ST simultaneously seconds.

Item		FL display	Key opera
Mode name	Description		Front K
Forced disc eject	**Removing a disc that cannot be ejected.** **The tray will open and unit will shift to P-off mode.** ***When Timer REC is ON or EXT-LINK is ON, execute " Forced disc eject " after releasing Timer REC or EXT-LINK.** **While Demonstration Lock is being set, this Forced disc eject function is not accepted.** If this command was executed while TIMER REC is being set, TIMER REC setting will be kept.	**The display before execution leaves.** ******	**When the powe** **press [STOP] ar** **keys simultane** **seconds.**
Forced power-off	**When the power button is not effective while power is ON, turn off the power forcibly.** ***When Timer REC is ON or EXT-LINK is ON, execute “Forced Power-off” after releasing Timer REC or EXT-LINK.**	**Display in P-off mode.**	**Press [POWER]** **than 10 second**

Item		FL display	Key oper
Mode name	**Description**		**Front K**
Aging	**Perform sequence of modes as * Aging Description shown below continually.** **Caution:** **All programs in DVD-RAM disc will be deleted because Formatting is done once in Aging process.**	**Display following the then mode.**	**When the powe** **press [CH DOW** **to DVD DUBBIN** **[OPEN/CLOSE]** **simultaneously** **seconds and les** **seconds.** **NOTE1:** **If Unit has not t** **Aging mode by** **operations sho** **execute TEST M** **and re-execute** **shown above.** **(*All the main u** **parameters incl** **are initialized b** **mode.)** **NOTE2:** **If the unit has h** **because of pres** **for over 10 seco** **turn off the pow** **execute this co** ***When releasin** **mode, press [P** **key.**

Aging Contents (Example):


At start, and in the case that the memory remainder of HDD are 0
Format (DVD)
Format (HDD)
If the memory remainder of DVD only are 0
At start, and in the case that the memory remainder of HDD are 0
REC & PLAY (HDD)
REC & PLAY (DVD)
REC (HDD) & PLAY (DVD) *1
REC (DVD) & PLAY (HDD) *2
REC & PLAY (HDD) →REC (HDD) & PLAY (DVD) *3
If the memory remainder of DVD,HDD are 0

*1 : REC (HDD) & PLAY (DVD) content of operation
HDD→REC, DVD→PLAY, CUE, REV, PLAY, PAUSE, SLOW, R-SLOW, PLAY, PROGRAM NAVI
*2 : REC (DVD) & PLAY (HDD) content of operation
DVD→REC, HDD→PLAY, CUE, REV, PLAY, PAUSE, SLOW, R-SLOW, PLAY, PROGRAM NAVI, TRAY OPEN/CLOSE
*3 : REC & PLAY (HDD)→REC (HDD) & PLAY (DVD) content of operation
HDD→REC & PLAY, DVD→PLAY, TRAY OPEN/CLOSE

Item		FL display	Key oper
Mode name	Description		Front K
Demonstration lock/unlock	**Ejection of the disc is prohibited. The lock setting is effective until unlocking the tray and not released by “Main unit initialization” of service mode.**	***When lock the tray.** LOCK **“LOCK” is displayed for 3 seconds.**	**When the powe press [STOP] ar [POWER] keys simultaneously seconds.** **Note:** **When a disc is this setting is n effective.**
		***When unlock the tray.** UNLOCK **“UNLOCK” is displayed for 3 seconds.**	**When the powe press [STOP] ar [POWER] keys simultaneously seconds.**
		***When press OPEN/ CLOSE key while the tray being locked.** LOCK **Display “LOCK” for 3 seconds.**	**Press [OPEN/CL while the tray b locked.**
Progressive initialization	**The progressive setting is initialized to Interlace.**	**The display before execution leaves.** ******	**When the powe E mode), press and [VHS to DV DUBBING] simultaneously seconds.**

8.1.3. (DVD) Service Modes at a glance

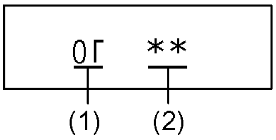
Service mode setting: While the power is off, press [STOP], [VHS to DVD DUBBING] and [OPEN / CLOSE] simultaneously for five seconds (OPERATION SELECT should be set to DVD).

Item		FL display	Key opera
Mode name	Description		(Remote contr
Release Items	Item of Service Mode executing is cancelled.	SERV	Press [0] [0] or service mode.
Error Code Display	Last Error Code of U/H/F held by Timer is displayed on FL. *Details are described in “8.1.1. (DVD) Self-Diagnosis Functions”.	♣☐☐ *♣ shows U/H/F. ☐☐ shows number. If any error history dose not exist, [F00] is displayed.	Press [0] [1] in mode
ROM Version Display	1. Region code (displayed for 5 sec.) 2. Main firm version (displayed for 5 sec.) 3. Timer firm version (displayed for 5 sec.) 4. Drive firm version (displayed for 5 sec.) 5. ROM correction version / (displayed for 5 sec.) 6. VHS Microprocessor version / (displayed for 5 sec.) 7. VHS ROM correction version / (left displated)	1. NO* 2. ****** 3. ****** 4. **** 5. *** 6. **** 7. ** ‘”’ are version displays.	Press [0] [2] in mode
White Picture Output	White picture is output as component Output from AV Decoder. *White picture (Saturation rate : 100%) *It is enable to switch Interlace/ Progressive by “I/P switch: [1] [4]”	*Initial mode is “Interlace”. WHIT I	Press [1] [1] in mode.
		Switch Interlace/ Progressive WHIT	Press [1] [4] in Picture Output *I/P are switche alternately.

Item		FL display	Key oper
Mode name	Description		(Remote cont
Magenta Picture Output	Magenta picture is output with Component Output from AV Decoder. *Magenta picture (Saturation rate: 100%) *It is enable to switch Interlace/ Progressive by “I/P switch: [1] [4]”	*Initial mode is “Interlace”. MAGE I	Press [1] [2] in mode.
		Switch Interlace/ Progressive MAGE	Press [1] [4] in Picture Output *I/P are switch alternately.
RTSC Return in XP (A & V)	L1 input signal is encoded (XP), decoded (XP) and output decoded signal to external without DISC recording and DISC playback.	Initial mode: EE2/ Interlace / XP/ Audio 48kHz EE2	Press [1] [3] in mode.
		Switch Interlace/ Progressive EE2P48	Press [1] [4] in Return XP mod *I/P are switch alternately.
		Audio 44.1 kHz/ 48 kHz Switch EE2P44	Press [2] [4] in Return XP mod *48 kHz / 44.1 k switched altern
I/P Switch	Switch Interlace and Progressive in EE mode. *Initial setting is “Interlace”. *This command is effective during executing “White Picture Output”, “Magenta Picture Output” and “RTSC Return in XP (A & V)” modes.	Initial mode is Interlace SERV P Switch Interlace/ Progressive SERV I	Press [1] [4] in mode. *I/P are switch alternately.
Audio Mute (XTMUTE)	Check whether mute is applied normally by the timer microprocessor.	T MUTE	Press [2] [1] in mode.
Audio Mute (XDMUTE)	Check whether mute is applied normally by the Digital P.C.B..	D MUTE	Press [2] [2] in mode.

Item		FL display	Key oper
Mode name	Description		(Remote cont
Audio Pattern Output	The audio pattern stored in the internal memory is output (Lch: 1kHz/-18dB) (Rch: 400Hz/-18dB) *Audio sound clock switching operation of DAC can be confirmed by sub command [2] [4].	Initial mode (Audio 48kHz) AU 48	Press [2] [3] in mode.
		Audio 44.1kHz/48kHz switching AU 44	Press [2] [4] in Pattern Output *48 kHz / 44.1 k switched altern
HDD READ inspection	Perform a complete read inspection of the HDD.	When the HDD is OK HDD OK If the HDD is defective HDD□○○ □ :Judge of Forward rate. *When normal (Forward rate is 35Mbps or more, and there is no HDD error):□is Space. *When Abnormal (Forward rate is less than 35Mbps or HDD error existing):□is X. ○○ :Number of what have spent time for seeking is over 100ms. *When normal:○○ are spaces. *When Abnormal: Display Number of what have spent time for seeking over 100ms. However, if the number is more than 100, display [XX]. We judge it is normal that the number is less than 4.	Press [3] [1] in mode. *When cancelin checking mode executing, do “ power-off”. Method: Press the “PO button more th seconds.
Laser Used Time Indiction	Check laser used time (hours) of drive.	***** ● (*****) is the used time display in hour. ● Laser used time of DVD / CD in Playback/ Recording mode is counted.	Press [4] [1] in mode.
Delete the Laser Used Time	Laser used time stored in the memory of the unit is deleted.	CLR	Press [9] [5] in mode.

Item		FL display	Key oper
Mode name	**Description**		**(Remote contr**
RAM Drive Last Error	**RAM Drive error code display.** ***For details about the drive error code, refer to the Service Manual for the specific RAM Drive.**	**1. Error Number is displayed for 5 seconds.** NO ** **2. Time when the error has occurred is displayed for 5 seconds.** DDhhmm **DD: Day** **hh: Hour** **mm: Minute** **3. Last Drive Error (1/2) is displayed for 5 seconds.** ****** **4. Last Drive Error (2/2) is displayed for 5 seconds.** ****** **5. Error occurring Disc type is displayed for 5 seconds.** ****** **6. Disc Maker ID is displayed for 5 seconds.** ****** **7. Factor of Drive Error occurring is left displayed** ******	**Press [4] [2] in** **mode.** **When “INFO****** **being displayed** **error histories** **displayed by pr** **[1] - [1] [9]** **In case that the** **cannot be ident** **display is black**

Item		FL display	Key oper
Mode name	**Description**		**(Remote contr**
Delete the Last Drive Error	**Delete the Last Drive Error information stored on the DVD RAM-Drive.**	CLR	**Press [9] [6] in** **mode.**
Laser power confirmation	**Drive state is judged based on difference between laser power value at shipping and present laser power value.**	CHK ＊ ＊is judgment result ＊ / Power value difference / Evaluation 0 / 1mW or less / Very good. 1 / 2mW or less / Good. 2 / 3mW or less / Bad. 3 / 4mW or more / Very bad. **If DVD-RAM disc in not inserted, [NO DISC] is displayed.** **If power value study was filed, [ERROR] is displayed.**	**1.** Insert DVD- **into RAM Drive in ser** **(Other media are ass** **correspondence.)** **2. Press [4] [4].**
Turn on all FL/ LEDs	**All segments of FL and all LEDs are turned on.**	**All segments are turned on.**	**Press [5] [1] in** **mode.**
S1 signal output	**Forcibly superimpose the S1 signal (approx. 4.5V DC) on the EE chroma signal, and check the output on the S terminal.**	S1 OUT	**Press [5] [2] in** **mode.**
S2 signal output	**Forcibly superimpose the S2 signal (approx. 2V DC) on the EE chroma signal, and check the output on the S terminal.**	S2 OUT	**Press [5] [3] in** **mode.**
Front connection inspection	**Press all front keys and check the connection between Main P.C.B. and Front key Switches.**	 **(1) Each time a key is pressed, segment turned on increases one by one.** **(2) Total umber of keys that have been pressed.**	**Press [5] [4] in** **mode.**
Production Date Display	**Display the date when the unit was produced.**	YYMMDD **YY: Year** **MM: Month** **DD: Day**	**Press [6] [1] in** **mode.**

Item		FL display	Key oper
Mode name	Description		(Remote contr
Display the accumlated working time	Display the accumulated unit's working time.	****** (Indicating unit: Second)	Press [6] [4] in s mode.
Display the Error History	Display the Error History stored on the unit.	Display reason of error for 5 seconds. NO ** 01: Defect of Digital P.C.B. (AV DEC / MAIN CPU) 02: Defect of RAM Drive. 03: Defect of Disc. 04: Defect of Digital P.C.B. or Communication Error. 05: Defect of Digital P.C.B. (AV DEC / MAIN CPU) Display the time when the error has occurred for 5 seconds. DDhhmm DD: Day hh: Hour mm: Minute Accumulated working time till occuring of the error is left displayed. ****** (Indicating unit: Second)	Press [6] [5] in s mode. Then press [0] [the past 19 erro are displayed.
Delete the Error History	Delete Error History information stored on the unit.	CLR	Press [9] [7] in s mode.

Item		FL display	Key opera
Mode name	Description		(Remote contr
SD card WRITE check	Delete Error History information stored on the unit.	When the WRITE check is OK. SD OK When the WRITE check is NG. SD NG *Note: The image stored in the SD card will be erased.	Insert a SD card card slot, and p in service mode *Insert SD card power is off. *Check for [CAF display on the F and go on the p
Tray OPEN/ CLOSE Test	The RAM drive tray is opened and closed repeatedly.	****** "*" is number of open/ close cycle times.	Press [9] [1] in s mode *When releasing mode, press the button of Remo Controller more seconds.
Error code initialization	Initialization of the last error code held by timer (Write in F00)	CLR	Press [9] [8] in s mode.
Initialize Service	Last Drive Error, Error history and Error Codes stored on the unit are initialized to factory setting.	CLR	Press [9] [9] in s mode.
Finishing service mode	Release Service Mode.	Display in STOP (E-E) mode. ******	Press power bu the front panel c controller in ser

8.2. (VHS) Self-Diagnosis and Special Mode Setting

8.2.1. (VHS) Self-Diagnosis Functions

This model has a self-diagnosis and display function. If the VHS section detects trouble during installation or during use, one of the following Error Codes will automatically appear in the display on VHS side. Error Codes are displayed in the form of a single English letter followed by two numbers, as for example "H01".

Note:

1. **The indication "U" is displayed on the FIP while power remains on.**
2. **The indication "H" or "F" is displayed on the FIP, and the power is automatically turned off. When the power is turned on again, the Error indication code will disappear and the unit will return to normal display mode (either clock or counter is displayed).**
3. **This Error indication code will be stored in the microprocessor even after the AC plug being disconnected.**
   The two-digit number portion of the stored Error indication code can be re-displayed in "second" display portion (the last 2 digits of the FIP) by placing the unit is Service Mode Number 3 When turning on Service Data Display as for example "01" or "02" etc. If a second error occurs, the most recent error will be displayed and stored until 3 self-diagnosis histories in maximum.
4. **To erase the stored Error Code data, Press FF and EJECT buttons on VCR simultaneously for over 5 seconds in Service Mode 3.**

Example of Error Indication on the FIP

		U, H or F	0	5
HOUR	10min.	1min.	10sec.	1sec.
Blank	Blank	Management Sign	Service Data No.	

Division of Management

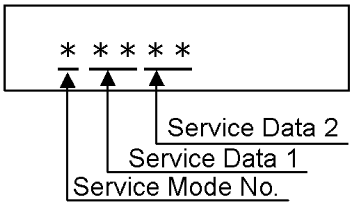
Management Sign	Management Division
U	User can deal with.
H	Shop can deal with.
F	It should be dealt with in service shop.

Error Number at a glance

Memory No. (Error No.)	Reason	Automatic display	M
H01	The cylinder could not be started. (Error of the cylinder or the cylinder driver.)	Yes	Yes
H02	The CAP FG could not be detected.	Yes	Yes
F03	Mechanism lock during without the unloading and the cassette-up.	Yes	Yes
F04	Mechanism lock during unloading	Yes	Yes
F05	S-reel pulse cannot be detected when a cassette tape is inserted. (Error of the S-reel system or the Capstan system.)	No	Yes
F06	Mechanism lock during the Cassette-up.	Yes	Yes
F09	Communication Error between VHS Microprocessor (IC6001) and Timer Microprocessor (IC7501)	Yes	Yes
H07	The recording circuit can not be operated in REC mode.	Yes	Yes
H08	The recording circuit is operated in except for REC mode.	Yes	Yes
U11	Cylinder clogs during the PLAY mode.	Yes	Yes
F15	S-reel pulse cannot be detected when a cassette tape is inserted. (Error of the S-reel system or the Capstan system.)	No	Yes
H16	Detection of the Cylinder lock during the constant rotation	No	Yes
H17	Detection of S-reel lock during the constant tape running	Yes	Yes
H18	Detection of T-reel lock during the constant tape running	Yes	Yes
F20	NG1 in the PG Shifter Automatic Adjustment (The cylinder rotation is unstable during the automatic adjustment.)	Yes	Yes
F21	NG2 in the PG Shifter Automatic Adjustment (The vertical sync signal is lacked while over 5 seconds on the alignment tape.)	Yes	Yes
F22	NG3 in the PG Shifter Automatic Adjustment (The installing position of Heads to the cylinder is our of specification.)	Yes	Yes
F23	NG4 in the PG Shifter Automatic Adjustment (The servo is not locked to the cylinder for more than 10 sec.)	Yes	Yes
H80	An exceptional ejection depends on a Error	No	Yes

8.2.2. (VHS) Special Modes Setting

NOTE:
OPERATION SELECT should be set to VHS.

Item		FL display	Key operatio
Mode name	**Description**		**Front Key**
Tracking Center	Tape Tracking is adjusted to center FIX position.	No display.	During PLAYBACK, [CH UP] and [CH DO keys simultaneousl
VHS Service Mode	In order to make service easy, a part of inside information of a microprocessor is displayed on FIP. *Details are described in "8.2.3. (VHS) Service Modes ".	 * * * * * Service Data 2 Service Data 1 Service Mode No.	Press [STOP], and [keys simultaneousl seconds when pow
Eject	Ejecting Cassette Tape	No display.	While in other than REC mode, press [S key for 3 seconds o [STOP] key of the R Controller for 3 sec VHS mode.

8.2.3. (VHS) Service Modes

<Service Mode Setting>

Set OPERATION SELECT to VHS.

When power is OFF, press [STOP] and [EJECT] keys simultaneously for 3 seconds to into Service Mode.

In Service Mode, press [STOP] and [EJECT] keys simultaneously to add Service Number.

8.2.3.1. (VHS) Service Mode and Service Data at a glance

Service Number	Contents	Contents of Indication on minute	Contents of Indication on second	Remarks
0	Indication for the inner data of IC6001	VHS mode (Real time)	Process number (Real time)	
		VCR mode (OPM)	Management number of the processing during mechanism shifting	

Service Number	Contents	Contents of Indication on minute	Contents of Indication on second	Remarks
1	Indication for the inner data of IC6001	Starting / finishing edges detecting data (Real time)	Data of receiving key (Real time)	
		00: Both starting / finishing edges have not been 01: Starting edge is detecting now 02: Finishing edge is detecting now 03: Both starting / finishing edges are detecting now	Indicate the receiving code when the key of VCR or remote controller being operated.	
2	Indication for the inner data of IC6001	Mechanism position (Real time) 0L: EJECT position 02: DOWN position 03: RREW position 04: LOAD position 05: REV position 06: PLAY position 07: POFF position 08: STOP_R position 09: STOP_F position - : FF/REW position - : Intermediate between each positions	Ordering for the Motors (Real time) 0*, 2*: CYL off, CAP off 1*: CYL off, CAP on (fwd) 3*: CYL off, CAP on (rev) 8*, A*: CYL on, CAP off 9*: CYL on, CAP on (fwd) B*: CYL on, CAP on (rev) *0: Motor off *1: Loading *2: Unloading *3: Break (Load + Unload)	There are next con in this mode for en mechanism operat without a cassette ● The starting / fir edges are not dete ● The reel lock is detected ● The tape and th positions are not d , And so on. Press the EJET ke over 3 seconds in t mode, and then the shifted into the spe modes, such as PC Adjustment, Model Setting, and so on.
				The orders for the are as follows. Bit 7: CYL ON/OFF Bit 6: ----------------- Bit 5: CAP FWD/RE Bit 4: CAP ON/OFF Bit 3: ----------------- Bit 2: ----------------- Bit 1: UNLOADING Bit 0: LOADING(H)

Service Number	Contents	Contents of Indication on minute	Contents of Indication on second	Remarks
3	Self-diagnosis history (1st)	Error number of history 1	Supplementary data 1 and 2 of history 1.	In the Self-Diagnos Memory, next 3 BY memorized for an 1 BYTE: Its Error n 2 BYTE: Its supple data
4	Self-diagnosis history (2nd)	Error number of history 2	Supplementary data 1 and 2 of history 2.	
5	Self-diagnosis history (3rd)	Error number of history 3	Supplementary data 1 and 2 of history 3.	In these modes, th supplementary dat 4 instead of the Er number and supplementary dat 2 are indicated onl pressing STOP ke
6	Indication for the inner data of IC6001	Real time servo data (4 digits) (Real time)		
		Higher rank 1 BYTE of SERVO data	Lower rank 1 BYTE of SERVO data	
7	Manual mechanism operation	Real time mechanism position	Real time ordering for the Motors	Press the STOP ke then the cassette t unloaded.
		0L: EJECT position 02: DOWN position 03: RREW position 04: LOAD position 05: REV position 06: PLAY position 07: POFF position 08: STOP_R position 09: STOP_F position - : FF/REW position - : Intermediate between each positions	0*, 2*: CYL off, CAP off 1*: CYL off, CAP on (fwd) 8*, A*: CYL on, CAP off 9*: CYL on, CAP on (fwd) B*: CYL on, CAP on (rev) *0: Motor off *1: Loading *2: Unloading *3: Break (Load + Unload)	

8.2.3.2. Example of FIP

4	0	3	1	2
HOUR	10min.	1min.	10sec.	1sec.
Service No.	Service Data 1		Service Data 2	

8.2.4. (VHS) Self-Diagnosis History Memory Function

8.2.4.1. (VHS) Condition for memorizing of the self-diagnosis history

1. **The self-diagnosis result and the supplementary data are the condition memorized just as an Error is detected.**

2. **There are the histories from number 1 to number 3.**
3. **The latest Error is memorized on history number 1,and then the old histories are shifted to the history number 2, 3.**
4. **Put out data from the memory number 3 by the shift is deleted.**
5. **If the latest Error is same with the history number 1 (2nd-latest), it is not memorized.**
   (The same Error number is not memorized in succession)

8.2.4.2. (VHS) Condition for clearing the self-diagnosis history

1. **A case of that press the FF key and the EJECT key simultaneously over 5 seconds.**

8.2.4.3. (VHS) Indication of the self-diagnosis history.

1. **The self-diagnosis histories and its supplementary data could be indicated on the FIP with Service mode of number from 3 to 5.**
2. **The procedure of setting the service mode and the format if the indication are same as usual.**

FIP INDICATION: 4 0 3 5 2

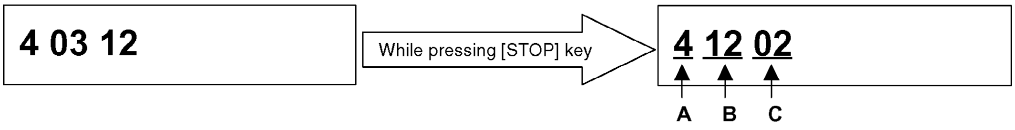
Hour of one-digit	Minute of two-digit	Minute of one-digit	Second of two-digit	Second of one-digit
Service mode number	Error number		Supplementary Data	
3	Number of history 1 (The latest)		Supplementary data 1 of history 1	Supplementary data 2 of history 1
4	Number of history 2 (2nd latest)		Supplementary data 1 of history 2	Supplementary data 2 of history 2
5	Number of history 3 (3rd latest)		Supplementary data 1 of history 3	Supplementary data 2 of history 3

Both the Error numbers and its supplementary data of history 1, 2and 3 are indicated by selecting the Service mode 3, 4 and 5 as shown above.
In case of that any Error has not been memorized, the Error number and its supplementary data is indicated as " - ".

8.2.4.4. (VHS) Display of Supplementary Data 3 and 4

During displaying the Self-Diagnosis History, press [STOP] key on front panel to change the display.

***Example of Display**



A: Service Mode Number.
B: Supplementary Data 3...Mechanism process shifting Number.
C: Supplementary Data 4...LM(Loading Motor information)

***Display of 4 12 02 means that " Loading Motor turns ON when [EJECT] button was pressed, but an error has occurred while mechanism was between REV position and LOAD position.**

<Supplementary Data 3>

[EJECT]	[FF]	[REW]
10: PLAY → passing REV 11: passing REV 12: passing REV → LOAD (Capstan STOP) 13: LOAD → DOWN 14: DOWN → EJECT 15: EJECT completion	U0: PLAY → STOP F U1: STOP F → FF U2: FF starting up	A0: PLAY → STOP F A1: STOP → REW A2: REW starting up
[PLAY]	[REC]	[STILL]
20: Cylinder starting up, Phase drawing	30: Cylinder starting up, Phase drawing	40:Turning forward
21: Audio muting, VV selection	31: REC signal output	41:Speed is 0, Capstan is
[P.ON]	[STILL → PLAY]	[CUE]
-- Process of turning on power	48: Tape sending	49: x2 speed sending, Tur point of Calculating remai
[P.OFF]	[CUE → PLAY]	[REV]
70: PLAY → P.OFF	4A: Finishing edge Checking, Tape sending	80: PLAY → P.OFF
	4-: PLAY Checking, Tape sending	81: Rewinding
		P.OFF → REV

<Supplementary Data 4> (LM Information)
Result of request of driving Loading Motor.

Display	Description
1	There was no change of mechanism position. (Loading Motor was OFF)
2	There was some change of mechanism position. (Loading Motor was ON)

8.2.5. (VHS) Description of Self Diagnosis Memory

In this Self-Diagnosis Function, in case error has occurred continuously, maximum of the newest 3 error data are / memorized.
And in order to analyze cause of error, the error number and the supplementary data of mode, mechanism position and so on are memorized.

8.2.5.1. (VHS) Error Number and Supplementary Data

The Supplementary Data as shown below are memorized to each error number.

Error No.	Reason	Supplementary Data			
		Data 1	Data 2	Data 3	D
01	The cylinder could not be started. (Error of the cylinder or the cylinder driver.)	VHS mode	-	-	-
02	The CAP FG could not be detected.	VHS mode	-	Process No.	Numbe
03	Mechanism lock during without the unloading and the cassette-up.	VHS mode	Standby position	Process No.	LM info
04	Mechanism lock during unloading	VHS mode	-	Process No.	LM info
05	S-reel pulse cannot be detected when a cassette tape is inserted. (Error of the S-reel system or the Capstan system.)	VHS mode	Tape position	Process No.	LM info
06	Mechanism lock during the Cassette-up.	VHS mode	Standby position	Process No.	LM info
07	The recording circuit can not be operated in REC mode.	VHS mode	-	Process No.	-
08	The recording circuit is operated in except for REC mode.	VHS mode	-	Process No.	-
09	Serial communication Error between VHS Microprocessor (IC6001) and Timer Microprocessor (IC7501).	-	-	-	-
11	Cylinder clogs during the PLAY mode.	VHS mode	-	Process No.	-
15	S-reel pulse cannot be detected when a cassette tape is inserted. (Error of the S-reel system or the Capstan system.)	VHS mode	Value of S-Reel Pulse counted	Process No.	-
16	Detection of the Cylinder lock during the constant rotation	VHS mode	Tape position	Process No.	-
17	Detection of S-reel lock during the constant tape running	VHS mode	Tape position	Process No.	Numbe
18	Detection of T-reel lock during the constant tape running	VHS mode	Tape position	Process No.	Numbe
20	NG1 in the PG Shifter Automatic Adjustment (The cylinder rotation is unstable during the automatic adjustment.)	VHS mode	-	Process No.	-

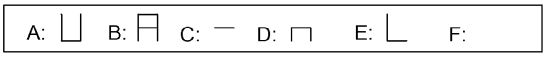
Error No.	Reason	Supplementary Data			
		Data 1	Data 2	Data 3	D
21	NG2 in the PG Shifter Automatic Adjustment (The vertical sync signal is lacked while over 5 seconds on the alignment tape.)	VHS mode	-	Process No.	-
22	NG3 in the PG Shifter Automatic Adjustment (The installing position of Heads to the cylinder is our of specification.)	VHS mode	-	Process No.	-
23	NG4 in the PG Shifter Automatic Adjustment (The servo is not locked to the cylinder for more than 10 sec.)	VHS mode	-	Process No.	-
80	An exceptional ejection depends on a Error	VHS mode	Refer to *Note 3	Process No.	-

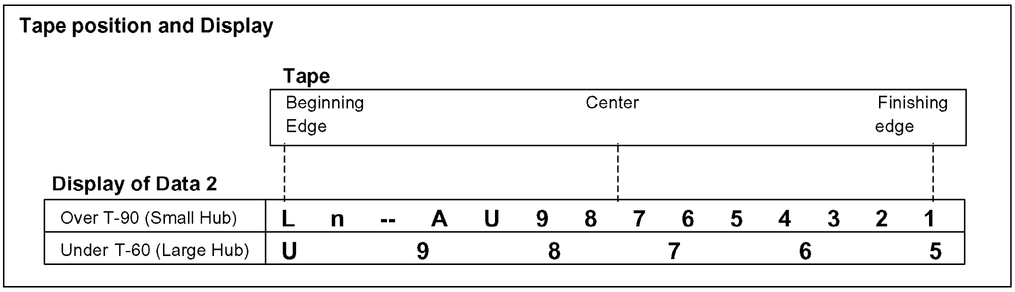
Note 1: Details of "VHS mode" of the Supplementary Data 1 (These values are hexadecimal indication)
0: STOP, 1: EJECT, 2: REW, 3: FF, 4:REV, 5: CUE, 6: SLOW, 7: POWEROFF, 8: PLAY, 9: STIL, A: REC, B: REC PAUSE, C: ADUB, D: ADUB PAUSE, E: INSERT, F: INSERT PAUSE

Note 2: Explanation of "Tape position" of the Supplementary Data
The Tape position Data is the area data of S-reel that is used for judgment of reducing speed in the Main microprocessor IC6001, and as the tape position is moved from the starting edge to the finishing edge, the value becomes smaller.
The Tape Data does not become "0" even if the tape reaches the finishing edge as the hub remains, and the tape position values are different between the large hub and the small hub as the each diameters are different from each other.

Tape Type	The aim of Tape position between the starti and the finishing edge
60 min. or less type (Large Hub)	The Tape position is divided into 6 stages b the Tape beginning edge: "A " and the Tape edge: "5".
90 min. or over type (Small Hub)	The Tape position is divided into 14 stages l the Tape beginning edge: "E " and the Tape edge: "1".

- "A" and "E" is hexadecimal. "A" =10 (Decimal), "E" =14 (Decimal).
- Hexadecimal indication from "A" to "E" are shown below.




Tape position and Display
Tape
Beginning Edge
Center
Finishing edge
Display of Data 2
Over T-90 (Small Hub)
L n -- A U 9 8 7 6 5 4 3 2 1
Under T-60 (Large Hub)
U 9 8 7 6 5

Note 3: Supplementary Data 2 (Reason of Ejection)

Supplementary Data 2	Reason
1	S-reel pulse is less than 3 when the loading has been completed. (Miss catching the tape)
2	Pulse Timer over during the short rewind at the DOWN position. (Error of S-photo sensor system, S-reel system, Capstan system)
3	Mechanism lock from the DOWN position to the LOAD position duri loading.
4	Both ends have been detected at the LOAD position when the loadir started.

9. Service Fixture & Tools

(For DVD)

Part Number	Description	Compatibilit
RFKZ0168	Extension Cable (Power & Digital I/F P.C.B. - FAN / 3 Pin)	Same as E50 / ES30V Series
RFKZ0327	Extension Cable (Main P.C.B. - Power & Digital I/F P.C.B. / 15 Pin / 40 mm)	Same as ES40V Serie
RFKZ0240	Extension Cable (Main P.C.B. - Power & Digital I/F P.C.B. / 19 Pin / 40 mm)	Same as ES75V / ES3 ES40V Series
RFKZ0368	Extension Cable (Main P.C.B. - Power & Digital I/F P.C.B. / 11 Pin / 40 mm)	New
RFKZ0215	Extension Cable (Main P.C.B. - FL Drive P.C.B. / 12 Pin)	Same as ES15 / E55 / ES40V Series
RFKZ0339	Extension Cable (Power & Digital I/F P.C.B. - HDD / 4 Pin)	New
RFKZ0367	Extension Cable (Power & Digital I/F P.C.B. - FL Drive / 6 Pin)	New
RFKZ0239	Extension Cable (Main P.C.B. - Front Jack P.C.B. / 10 Pin)	Same as E75V / ES30

Part Number	Description	Compatibilit
RFKZ0260	Extension Cable (Main P.C.B. - RAM / Digital P.C.B. Module / 88 Pin)	Same as ES10 Series
JZS0484	Eject Pin	Same as ES15 / E50 S
RFKZ03D01K	Lead Free Solder (0.3mm/100g Reel)	Same as ES15 Series
RFKZ06D01K	Lead Free Solder (0.6mm/100g Reel)	Same as ES15 Series
RFKZ10D01K	Lead Free Solder (1.0mm/100g Reel))	Same as ES15 Series
RFKZ0316	Solder Remover (Lead free 10W temperature Solder/ 180g)	Same as ES15 Series
RFKZ0328	Flux	Same as ES15 Series
RFKZ0329	Bottle of Flux	Same as ES15 Series

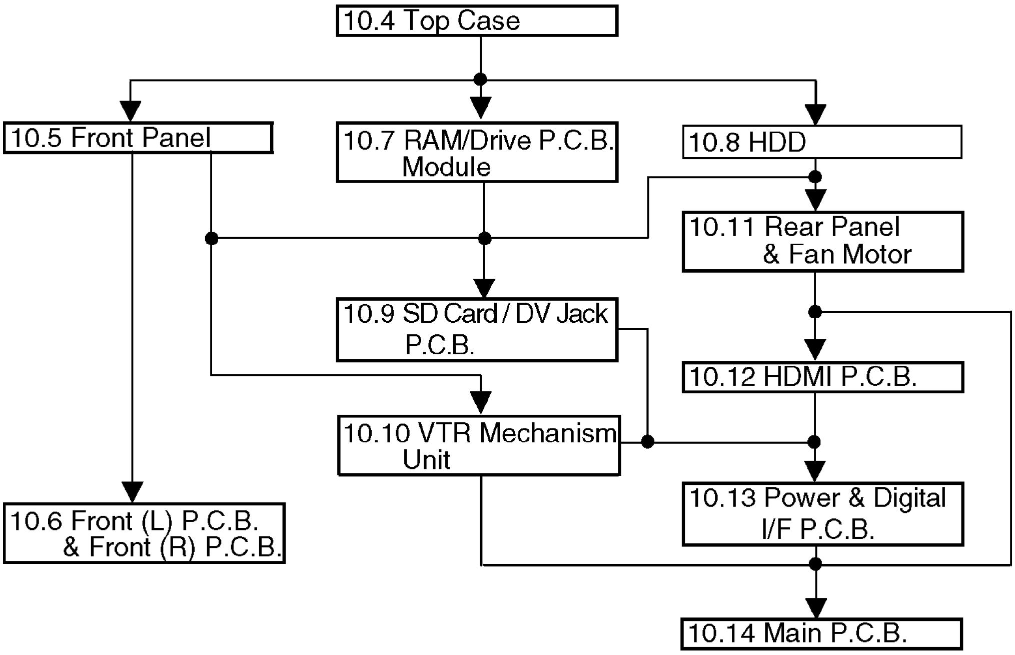
(For VHS)

Part Number	Description	Compatibilit
VFM8080HQFP	NTSC VHS Alignment Tape	Same as E75V / ES30
VFK0329	Post Adjustment Screwdriver	Same as E75V / ES30
VFK0330	Fine Adjustment Gear Driver	Same as E75V / ES30

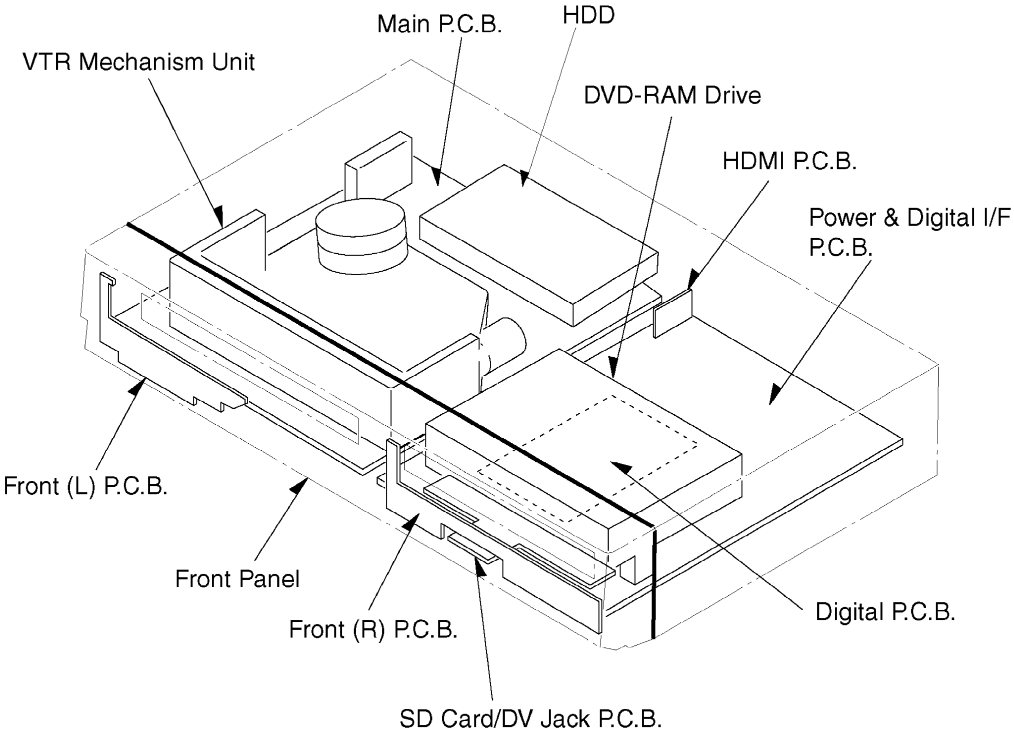
10. Assembling and Disassembling

10.1. Disassembly Flow Chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart below.


10.4 Top Case
10.5 Front Panel
10.7 RAM/Drive P.C.B. Module
10.8 HDD
10.11 Rear Panel & Fan Motor
10.9 SD Card / DV Jack P.C.B.
10.12 HDMI P.C.B.
10.10 VTR Mechanism Unit
10.13 Power & Digital I/F P.C.B.
10.6 Front (L) P.C.B. & Front (R) P.C.B.
10.14 Main P.C.B.

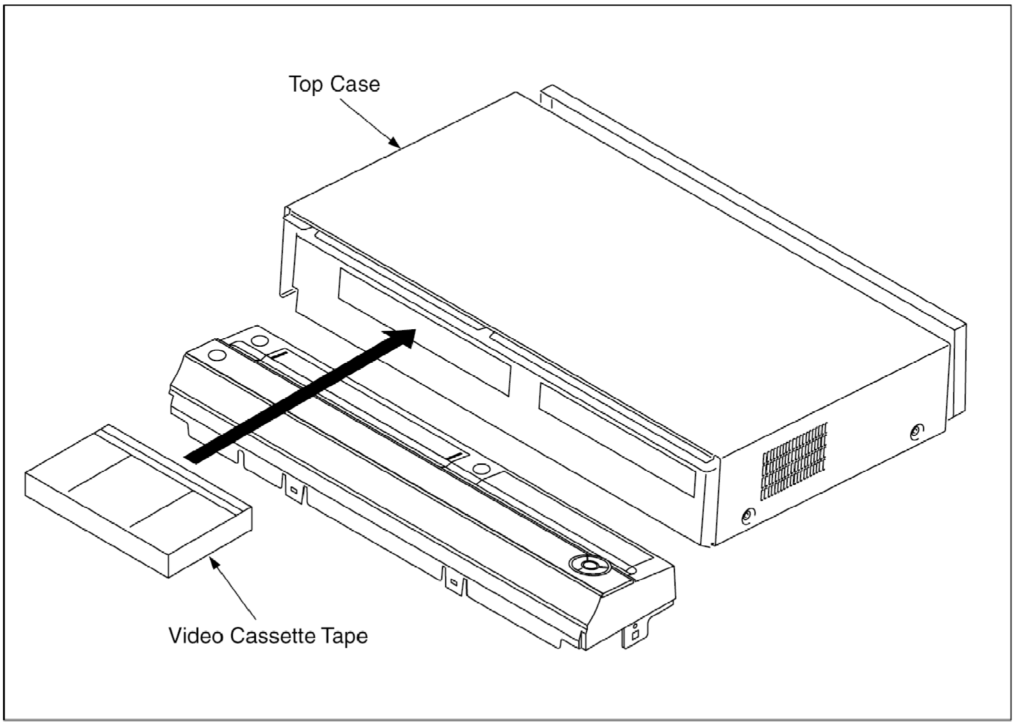
10.2. P.C.B. Positions


Main P.C.B.
HDD
VTR Mechanism Unit
DVD-RAM Drive
HDMI P.C.B.
Power & Digital I/F P.C.B.
Front (L) P.C.B.
Front Panel
Front (R) P.C.B.
Digital P.C.B.
SD Card/DV Jack P.C.B.

10.3. Caution with inserting cassette tape when disassembling the unit

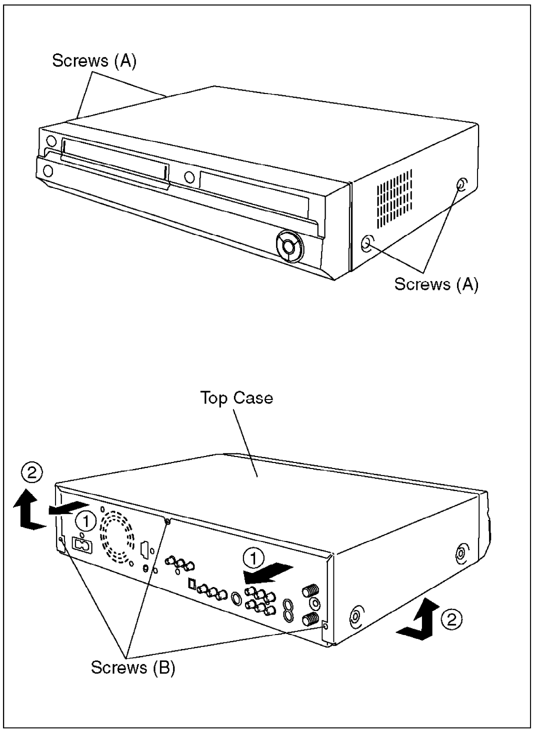
Note1:
For description of the disassembling procedure, see the section 10.4.

Note2:
Video Cassette might not enter when a strong lighting is applied to VHS Mechanism when Video Cassette is inserted. Please weaken the lighting or cover with the top panel etc.


Top Case
Video Cassette Tape

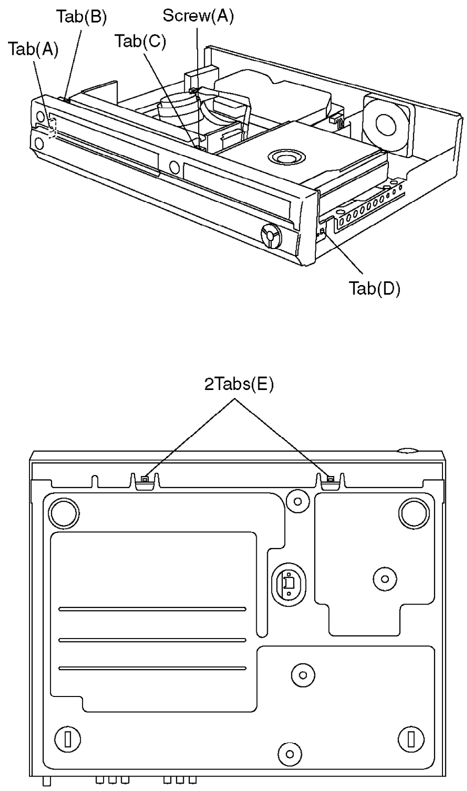
10.4. Top Case

1. **Remove the 4 screws (A) and 3 screws (B).**
2. **Slide Top Case rearward and open the both ends at rear side of the Top Case a little and lift the Top Case in the direction of the arrows.**


Screws (A)
Screws (A)
Top Case
②
①
①
②
Screws (B)

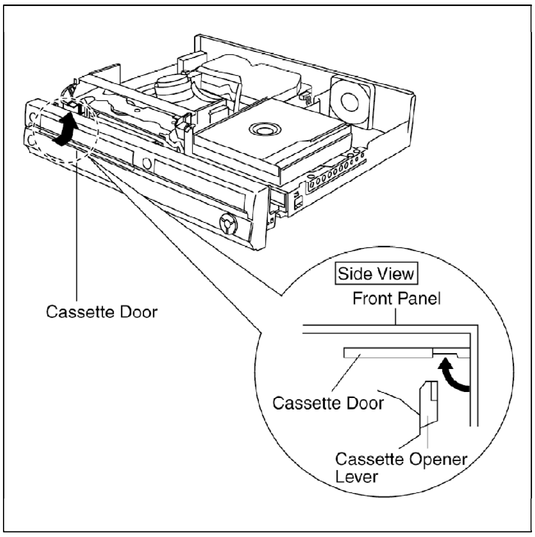
10.5. Front Panel

1. **Remove one screw (A).**
2. **Unlock tab (A) and tab (B) simultaneously.**
3. **Unlock tab (C) and tab (D) simultaneously.**
4. **Unlock 2 tabs (E) respectively, and pull out Front Panel with connector slightly.**



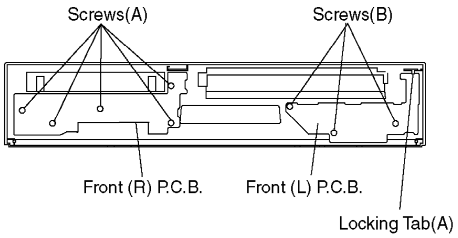
Note:

When attaching Front Panel, in order to hook Cassette Door Opener Lever to Cassette Door, push up cassette door in the direction of arrow and insert a front panel.


Cassette Door
Side View
Front Panel
Cassette Door
Cassette Opener Lever

10.6. Front (L) P.C.B. & Front (R) P.C.B.

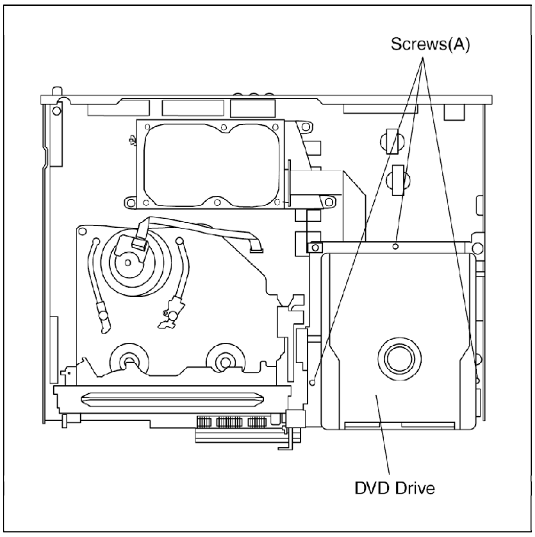
1. **Remove 5 screws (A) to remove Front (R) P.C.B.**
2. **Remove 3 screws (B) and unlock Locking Tab (A) to remove Front (L) P.C.B.**


Screws(A)
Screws(B)
Front (R) P.C.B.
Front (L) P.C.B.
Locking Tab(A)

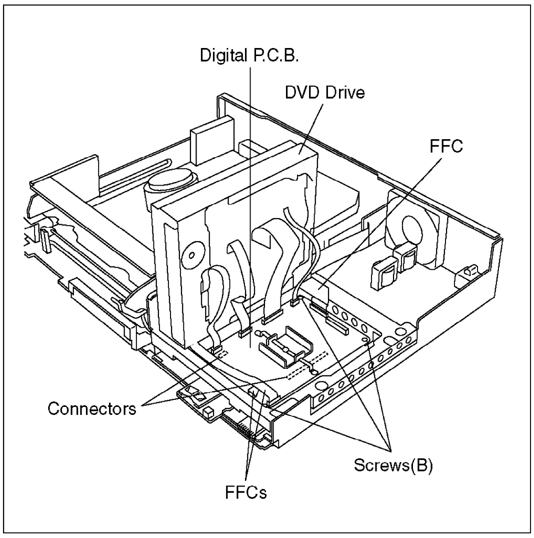
10.7. RAM / Digital P.C.B. Module

Caution:
Pairing of RAM Drive and Digital P.C.B. as "RAM/ Digital P.C.B. Module" have to be replaced together.
If the pairing is changed, RAM Drive unit has to be re-aligned. Because the alignment data for RAM Drive Unit is stored in Digital P.C.B..

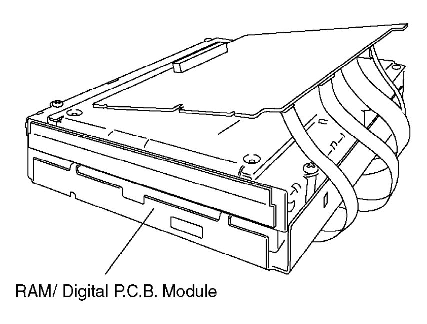
1. **Remove 3 Screws (A).**


Screws(A)
DVD Drive

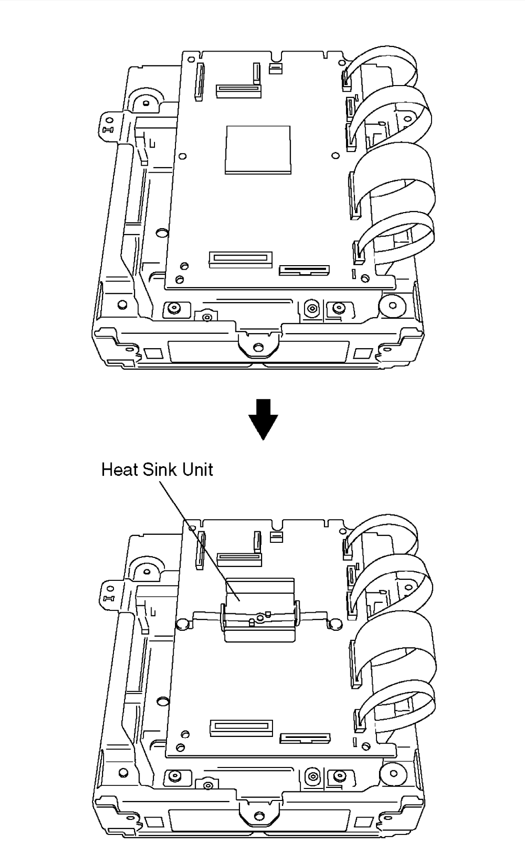
2. **With holding DVD drive as below illustration, remove 3 Screws (B) and disconnect 3 FFCs.**
   And lift up Digital P.C.B. slightly so to disconnect connectors to remove Digital P.C.B..


Digital P.C.B.
DVD Drive
FFC
Connectors
Screws(B)
FFCs

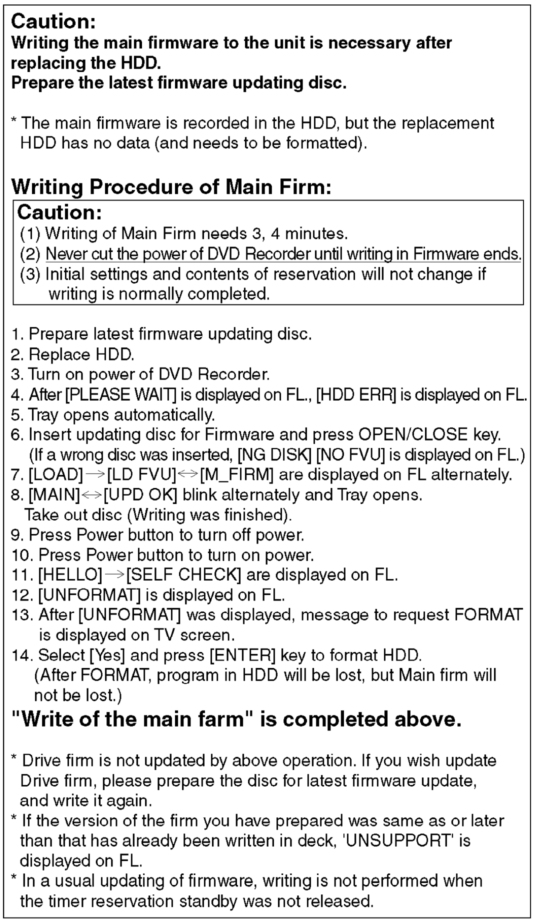
3. **Put Digital P.C.B. on RAM Drive and remove RAM/Digital P.C.B. Module.**


RAM/ Digital P.C.B. Module

Note:
RAM/Digital P.C.B. Module as service part has no heat sink unit.
Before returning to customer, heat sink unit should be installed on Digital P.C.B..


Heat Sink Unit

10.8. HDD



Caution:

Writing the main firmware to the unit is necessary after replacing the HDD.
Prepare the latest firmware updating disc.

* The main firmware is recorded in the HDD, but the replacement HDD has no data (and needs to be formatted).

Writing Procedure of Main Firm:

Caution:
(1) Writing of Main Firm needs 3, 4 minutes.
(2) Never cut the power of DVD Recorder until writing in Firmware ends.
(3) Initial settings and contents of reservation will not change if writing is normally completed.

1. Prepare latest firmware updating disc.
2. Replace HDD.
3. Turn on power of DVD Recorder.
4. After [PLEASE WAIT] is displayed on FL., [HDD ERR] is displayed on FL.
5. Tray opens automatically.
6. Insert updating disc for Firmware and press OPEN/CLOSE key.
   (If a wrong disc was inserted, [NG DISK] [NO FVU] is displayed on FL.)
7. [LOAD]→[LD FVU]↔[M_FIRM] are displayed on FL alternately.
8. [MAIN]↔[UPD OK] blink alternately and Tray opens.
   Take out disc (Writing was finished).
9. Press Power button to turn off power.
10. Press Power button to turn on power.
11. [HELLO]→[SELF CHECK] are displayed on FL.
12. [UNFORMAT] is displayed on FL.
13. After [UNFORMAT] was displayed, message to request FORMAT is displayed on TV screen.
14. Select [Yes] and press [ENTER] key to format HDD.
    (After FORMAT, program in HDD will be lost, but Main firm will not be lost.)

"Write of the main farm" is completed above.

* Drive firm is not updated by above operation. If you wish update Drive firm, please prepare the disc for latest firmware update, and write it again.
* If the version of the firm you have prepared was same as or later than that has already been written in deck, 'UNSUPPORT' is displayed on FL.
* In a usual updating of firmware, writing is not performed when the timer reservation standby was not released.

Handling of HDD

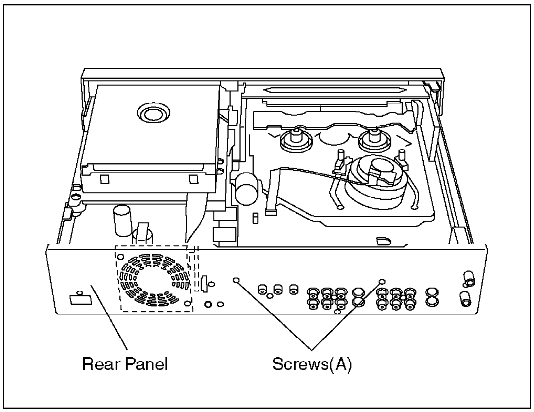
The following precautions should be taken when handling HDD.

1. **Never give an impact to HDD. (Even a drop from 1cm height can be a cause of HDD failure.**
2. **When placing HDD on a workbench, provide a mat on a bench for shock absorption and anti-static purposes.**
3. **When installing HDD, release it from your hands only after confirming that it is fully set on the chassis.**
4. **Avoid stacking up HDD.**
5. **HDD is unstable and easy to fall. Do not stand it on its side face.**
6. **When handling HDD, hold its side faces to avoid static hazard.**
7. **Do not place HDD on its wrapping bag after removal. (Prevention of static hazard**
8. **Use a screwdriver with low impact and anti-static features.**

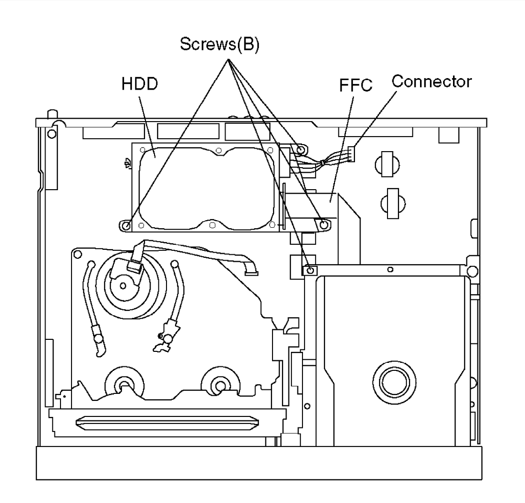
Note:

When replacing HDD, please make the rear jumper slave or cable select configuration.

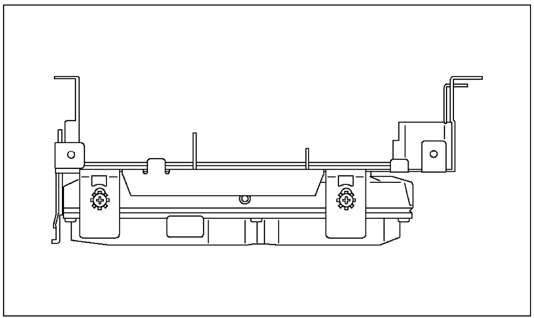
1. Remove 2 Screws (A).


Rear Panel
Screws(A)

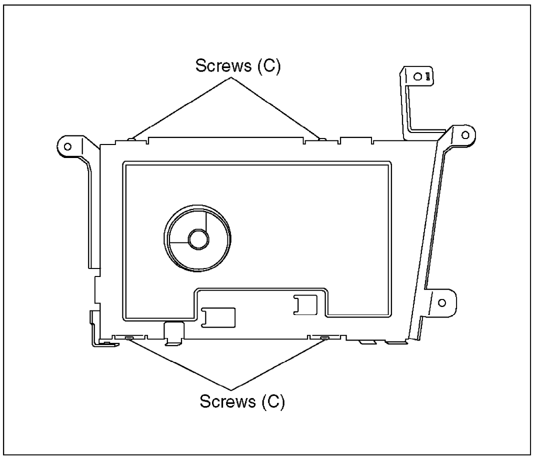
2. **Disconnect the wire with connector from Digital I/F P.C.B..**
3. **Remove the 4 Screws (B) and FFC to remove HDD Bracket with HDD.**


Screws(B)
HDD
FFC
Connector

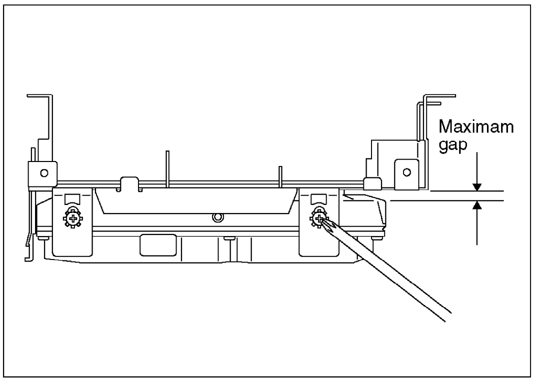
4. **Put HDD with HDD angle up and down inversely so as not to give a shock to HDD.**



5. **Remove the 4 Screws (C) to remove HDD from HDD Bracket.**



- After replacement of Power & Digital P.C.B., it is necessary for writing of main firm. And it is necessory for format of HDD. (Recorded all contents are erased.)
  Refer to "Meajurements and Adjustments" in detail.
- [TM L1] is displayed on FL after replacement of Power & Digital P.C.B.. Once the power is OFF, the power is ON again.

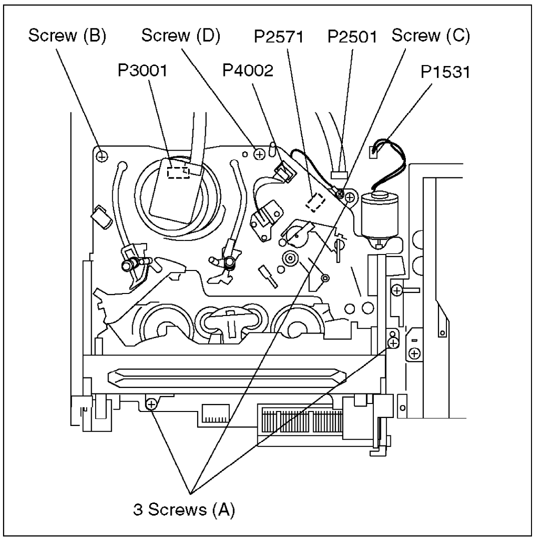


10.9. VTR Mechanism Unit

1. Disconnect 3 Connectors (P1531, P2501 and P4002).

2. Remove 3 Screws (A), Screw (B) , Screw (C) and Screw (D).

3. Lift up VTR Mechanism Unit perpendicularly so to disconnect Connectors (P2571 and P3001).


Screw (B)
Screw (D)
P2571
P2501
Screw (C)
P3001
P4002
P1531
3 Screws (A)

Note:

Pay attention to stiff connections of P2571 and P3001, when removing VTR Mechanism Unit.

10.9.1. Caution for attaching VTR Mechanism Unit

1. **Because Position SW should be set to "Eject Position", refer to fig.(A) and set the position switch so that the boss and arrow mark come on a straight line.**
2. **Attach VTR Mechanism Unit so that Boss of Position SW is put into long hole of Main Cam Gear, refer to Fig. (B).**

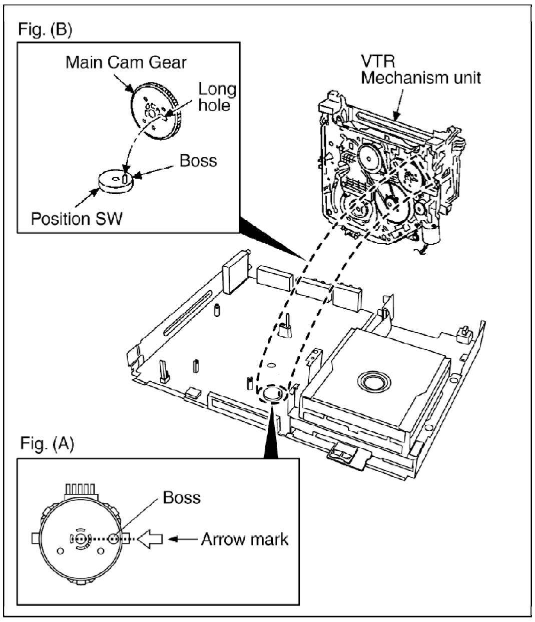
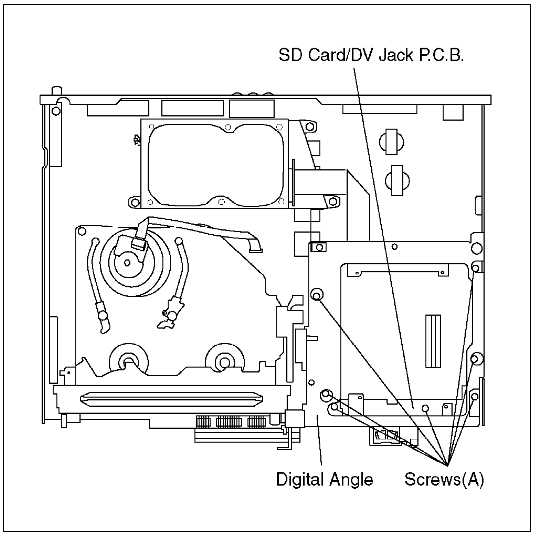


Fig. (B)
Main Cam Gear
Long hole
Boss
Position SW
VTR Mechanism unit
Fig. (A)
Boss
Arrow mark

10.10. SD Card/DV Jack P.C.B.

1. Remove 7 Screws (A).

2. Remove SD Card/DV Jack P.C.B. with Digital Angle.


SD Card/DV Jack P.C.B.
Digital Angle
Screws(A)

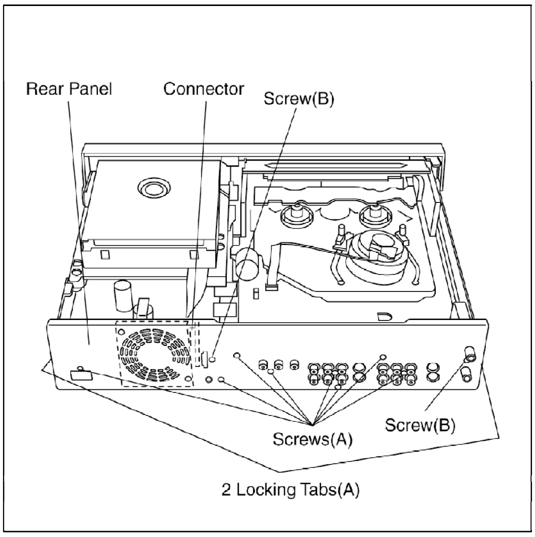
10.11. Rear Panel & Fan Motor

10.11.1. Rear Panel with Fan Motor

1. Disconnect Fan Connector.

2. Remove 8 Screws (A) and 2 Screws (B).

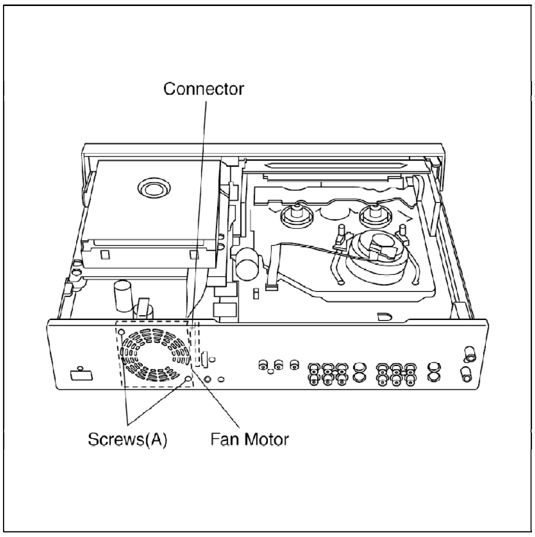
3. Unlock 2 Locking Tabs (A) to remove Rear Panel with Fan Motor.


Rear Panel
Connector
Screw(B)
Screw(B)
Screws(A)
2 Locking Tabs(A)

10.11.1.1. Only Fan Motor

1. Disconnect Fan Connector.

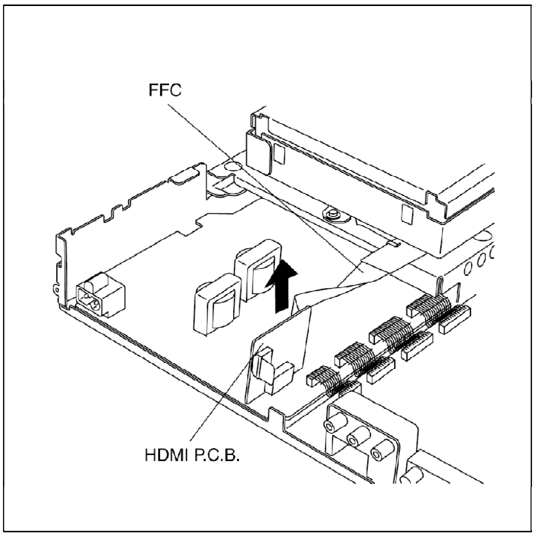
2. Remove 2 Screws (A) to Remove Fan Motor.



10.12. HDMI P.C.B.

1. Disconnect FFC.

2. Pull up HDMI P.C.B. for the direction of arrow.



10.13. Power & Digital I/F P.C.B.

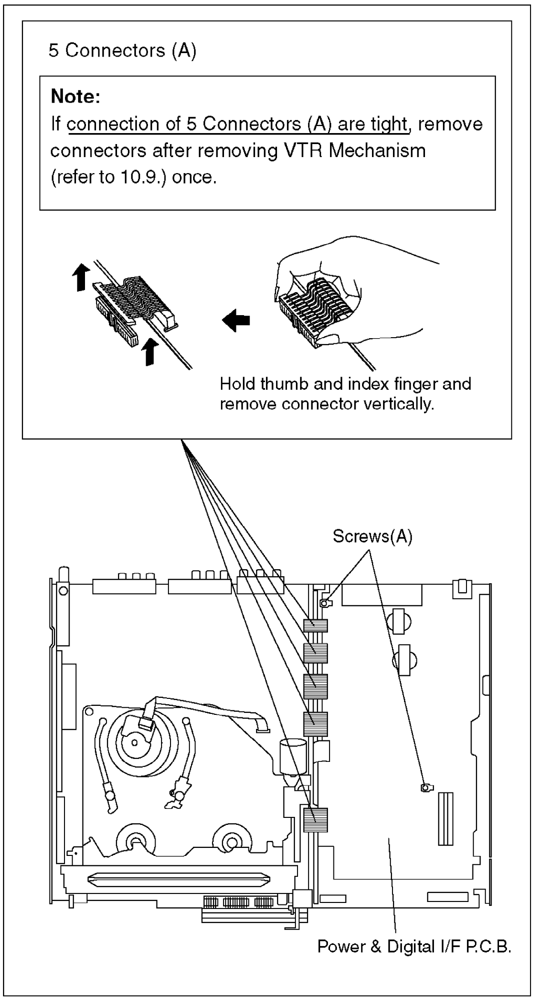
- After replacement of Power & Digital P.C.B., it is necessary for writing of main firm. And it is necessory for format of HDD. (Recorded all contents are erased.)
  Refer to "Meajurements and Adjustments" in detail.
- [TM L1] is displayed on FL after replacement of Power & Digital P.C.B.. Once the power is OFF, the power is ON again.

Note:
If connection of 4 Conenectors (A) are tight, remove connectors after removing VTR Mechanism (refer to 10 ,9).

1. Disconnect 5 Connectors (A).

2. Remove the 2 Screws (A).

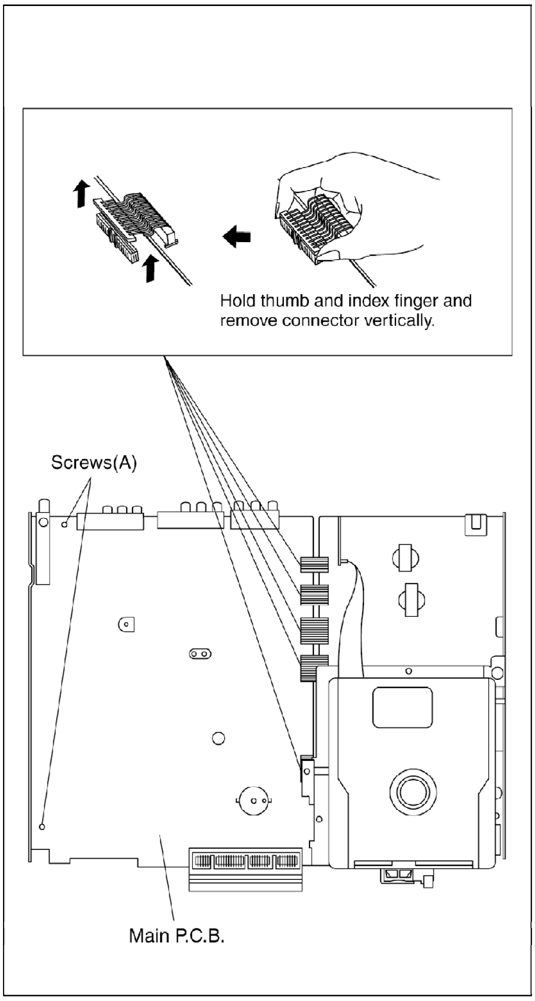
3. Remove Power & Digital I/F P.C.B.


5 Connectors (A)
Note:
If connection of 5 Connectors (A) are tight, remove connectors after removing VTR Mechanism (refer to 10.9.) once.
Hold thumb and index finger and remove connector vertically.
Screws(A)
Power & Digital I/F P.C.B.

10.14. Main P.C.B.

1. Disconnect 5 Connectors.

2. Remove 2 Screws (A) and remove Main P.C.B.


Hold thumb and index finger and remove connector vertically.
Screws(A)
Main P.C.B.

11. Measurements and Adjustments

11.1. Service Positions

Note:
For description of the disassembling procedure, see the section 10.

11.1.1. Checking and Repairing of Power & Digital I/F P.C.B.

1. Top Case

- Remove 4 Screws (A) on side
- Remove 3 Screws (B) on rear
- Remove Top Case

2. Front Panel

- Remove 1 Screw (A) on center
- Unlock 4 Locking Tabs (A),(B),(C),(D)
- Unlock 2 Locking Tabs (E) on bottom to remove Front Panel

3. Rear Panel with Fan Motor

- Disconnect Fan Connector
- Remove 8 Screws (A) and 2 Screw (B) fixing Rear Panel
- Unlock 2 Locking Tabs to remove Rear Panel with Fan Motor

4. HDD

- Disconnect a connector from Power & Digital I/F P.C.B.
- Remove 4 Screws (B) and FCC
- Remove HDD with HDD angle and put it beside chassis

5. RAM/Digital P.C.B. Module

- Remove 3 Screws (A) fixing DVD Drive and lift up DVD Drive slightly
- With holding DVD drive, remove 3 Screws (B) fixing Digital P.C.B. and disconnect 3 FFCs
- Left up Digital P.C.B.slightly so to disconnect connectors between Digital P.C.B. and Power & Digital I/F P.C.B.
- Remove RAM/Digital P.C.B. Module and put it beside chassis

6. SD Card/DV Jack P.C.B. with Digital Angle

- Remove 7 Screws (A) fixing Digital P.C.B.
- Remove SD Card/DV Jack P.C.B. with Digital Angle

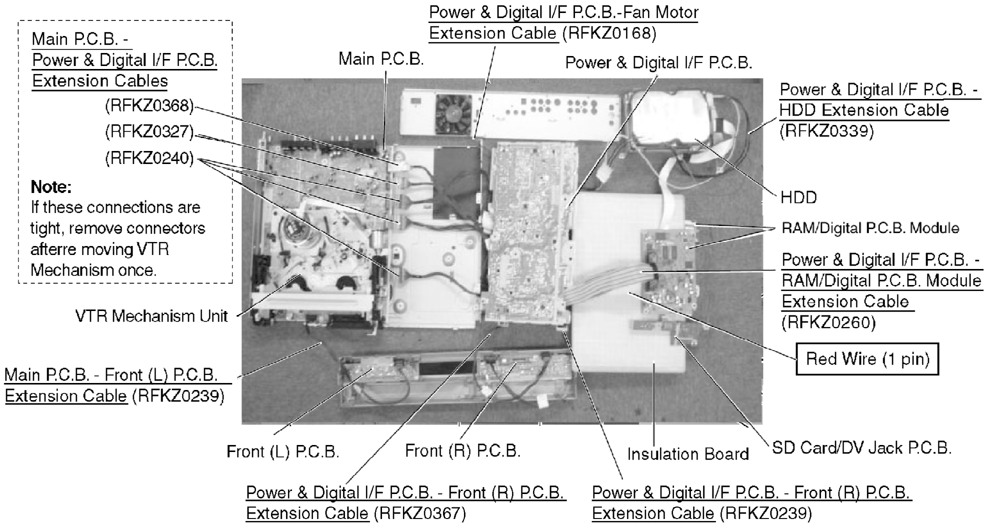
7. Power & Digital I/F P.C.B.

- Remove 5 Connectors (A) between Main P.C.B. and Power & Digital I/F P.C.B.
- Remove 2 Screws (A) from Power & Digital I/F P.C.B.
- Remove Power & Digital I/F P.C.B.

Put an insulated sheet on DVD Drive, and the foil side the Power & Digital I/F P.C.B. faces up

Connect Extension Cables,
*between Main P.C.B. and Power & Digital I/F P.C.B. with (RFKZ0327/ RFKZ0240 x 3/ RFKZ0368),
*between Main P.C.B. and Front (L) P.C.B. with (RFKZ0239),
*between Power & Digital I/F P.C.B. and Front (R) P.C.B. with (RFKZ0239),
*between Power & Digital I/F P.C.B. and Front (R) P.C.B. with (RFKZ0367),
*between Power & Digital I/F P.C.B. and HDD with (RFKZ0339),
*between Power & Digital I/F P.C.B. and Fan Motor with (RFKZ0168),
*between RAM/Digital P.C.B.Module and Power & Digital I/F P.C.B. with (RFKZ0260).
Connect an original cable between RAM/Digital P.C.B. Module and SD Card/DV Jack P.C.B., HDD.

Caution :
Red wire in the extension cable should be connected to (1) pin.


Main P.C.B. - Power & Digital I/F P.C.B. Extension Cables
(RFKZ0368)
(RFKZ0327)
(RFKZ0240)
Power & Digital I/F P.C.B.-Fan Motor Extension Cable (RFKZ0168)
Main P.C.B.
Power & Digital I/F P.C.B.
Power & Digital I/F P.C.B. - HDD Extension Cable (RFKZ0339)
HDD
RAM/Digital P.C.B. Module
Power & Digital I/F P.C.B. - RAM/Digital P.C.B. Module Extension Cable (RFKZ0260)
Red Wire (1 pin)
VTR Mechanism Unit
Main P.C.B. - Front (L) P.C.B. Extension Cable (RFKZ0239)
Front (L) P.C.B.
Front (R) P.C.B.
Insulation Board
SD Card/DV Jack P.C.B.
Power & Digital I/F P.C.B. - Front (R) P.C.B. Extension Cable (RFKZ0367)
Power & Digital I/F P.C.B. - Front (R) P.C.B. Extension Cable (RFKZ0239)

Note:
If these connections are tight, remove connectors afterre moving VTR Mechanism once.

11.1.2. Checking and Repairing of Main P.C.B.

1. Top Case

- Remove 4 Screws (A) on side.
- Remove 3 Screws (B) on rear.
- Remove Top Case.

2. Front Panel

- Remove 1 Screw (A) on center.
- Unlock 4 Locking Tabs (A),(B),(C),(D)
- Unlock 2 Locking Tabs (E) on bottom
- Remove Front Panel

3. Rear Panel with Fan Motor

- Disconnect Fan Connector
- Remove 8 Screws (A) and 2 Screw (B) fixing Rear Panel
- Unlock 2 Locking Tabs to remove Rear Panel with Fan Motor

4. HDD

- Disconnect a connector from Power & Digital I/F P.C.B.
- Remove 4 Screws (B) and FCC
- Remove HDD with HDD angle and put it beside chassis

5. VTR Mechanism Unit

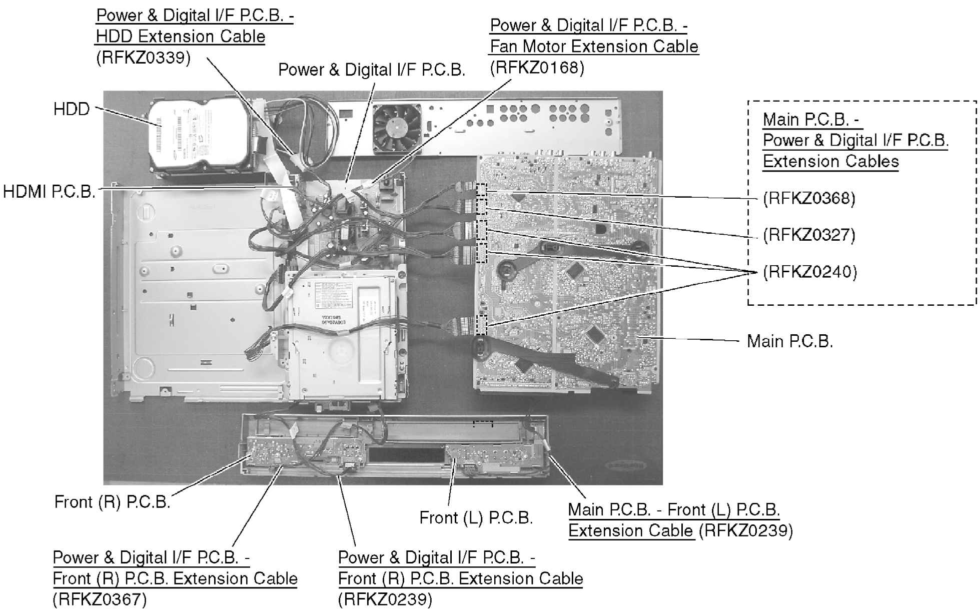
- Disconnect 3 Connectors
- Remove 3 Screws (A), Screw (B), Screw (C), Screw (D)
- Lift up VTR Mech. Unit to remove it

6. Main P.C.B.

- Disconnect 5 Connectors (A) between Main P.C.B. and Power & Digital I/F P.C.B.
- Remove 2 Screws (A) fixing Main P.C.B. to remove Main P.C.B.
- Attach VTR Mechanism Unit on to Main P.C.B.
- Tighten Screw (C) with Earth Wire
- Tighten Screw (D) beside Screw (C)
- Insert 1 Connector and 2 FFCs

Hold Main P.C.B.with VTR Mechanism, make it upside-down, and put it.

Connect Extension Cables,
*between Main P.C.B. and Power & Digital I/F P.C.B. with (RFKZ0327/ RFKZ0240 x 3/ RFKZ0368),
*between Main P.C.B. and Front (L) P.C.B. with (RFKZ0239),
*between Power & Digital I/F P.C.B. and Front (R) P.C.B. with (RFKZ0239),
*between Power & Digital I/F P.C.B. and Front (R) P.C.B. with (RFKZ0367),
*between Power & Digital I/F P.C.B. and HDD with (RFKZ0339),
*between Power & Digital I/F P.C.B. and Fan Motor with (RFKZ0168).


Power & Digital I/F P.C.B. - HDD Extension Cable (RFKZ0339)
Power & Digital I/F P.C.B.
Power & Digital I/F P.C.B. - Fan Motor Extension Cable (RFKZ0168)
HDD
HDMI P.C.B.
Main P.C.B. - Power & Digital I/F P.C.B. Extension Cables
(RFKZ0368)
(RFKZ0327)
(RFKZ0240)
Main P.C.B.
Front (R) P.C.B.
Front (L) P.C.B.
Main P.C.B. - Front (L) P.C.B. Extension Cable (RFKZ0239)
Power & Digital I/F P.C.B. - Front (R) P.C.B. Extension Cable (RFKZ0367)
Power & Digital I/F P.C.B. - Front (R) P.C.B. Extension Cable (RFKZ0239)

11.1.2.1. Checking IR Circuit

NOTE1: Even if Main P.C.B. is not removed, IR Circuit can be checked.

NOTE2: Prepare the Oscilloscope

1. **Remove Top Case.**
2. **Turn on the power. Then if "Welcome ..." was displayed on the TV monitor, press [ENTER] to advance next stage.**
   Then press [ENTER] and proceed to step 6.

(*After "EPG" has been set up, this indication will not appear.)

3. Press [FUNCTIONS].

4. Select "TV GUIDE", and then press [ENTER].

5. Press [ENTER] to advance next stage.

6. Press [ENTER] to advance next stage.

7. Select "USA", and then press [ENTER].

8. Input "0 2 0 3 2", and then press [ENTER].

9. Select "Yes", and then press [ENTER].

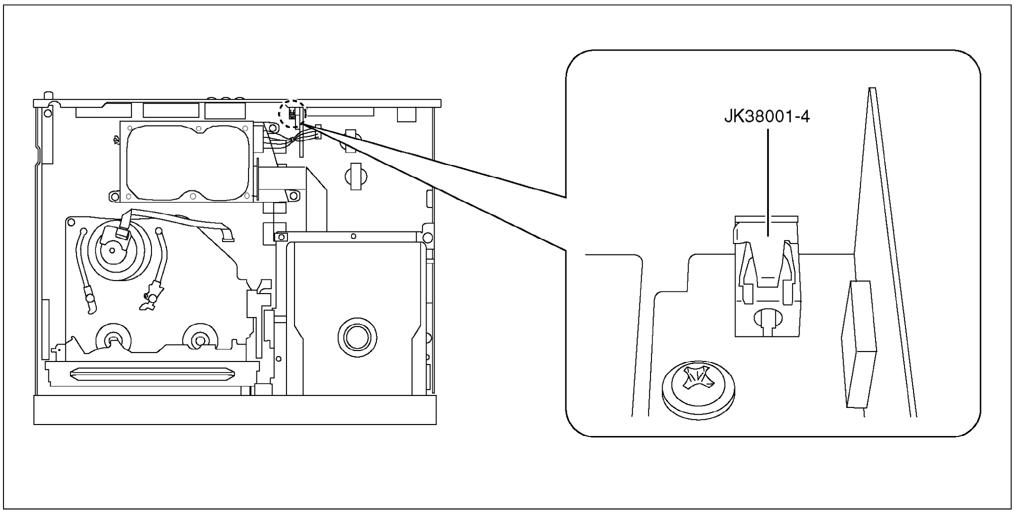
10. Select "Yes", and then press [ENTER].

11. Select "Ch3", and then press [ENTER].

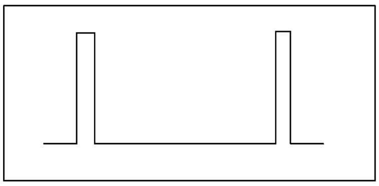
12. Press [ENTER].

13. Select "Not Listed", and then press [ENTER].

14. Connect scope to JK38001-4



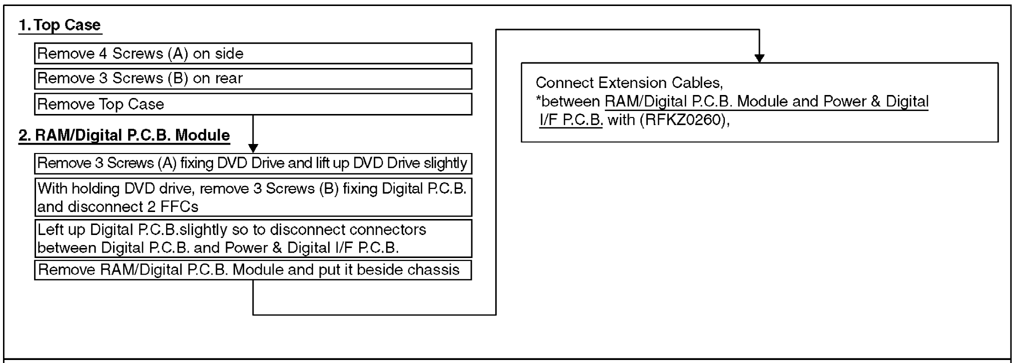
15. Press [ENTER], and then if the P.C.B. is "OK", pulse signals of approx. 4.5Vp-p are output twice from JK38001-4.
(When you want to check again, select "Test this code again" and press [ENTER], then Pulse signals are output again.



***Recommended ranges of the Oscilloscope:**

V: DC range, and 1V/div.
T: 1msec. /div.

11.1.3. Checking and Repairing of RAM / Digital P.C.B. Module



1. Top Case

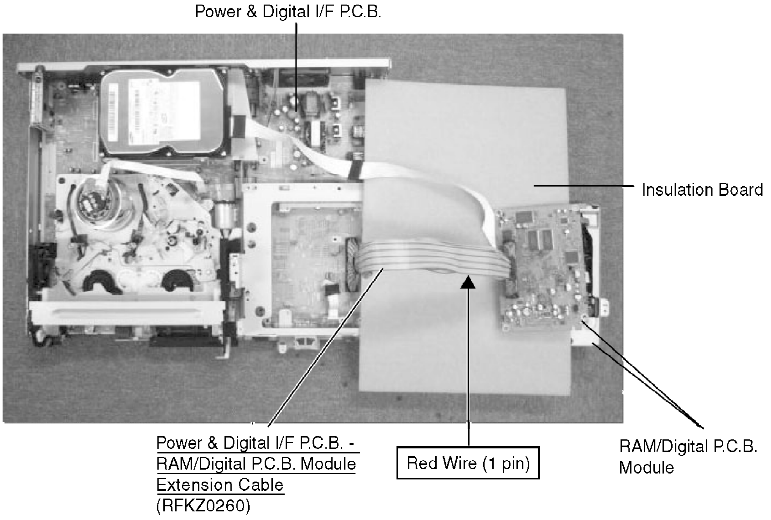
- Remove 4 Screws (A) on side
- Remove 3 Screws (B) on rear
- Remove Top Case

2. RAM/Digital P.C.B. Module

- Remove 3 Screws (A) fixing DVD Drive and lift up DVD Drive slightly
- With holding DVD drive, remove 3 Screws (B) fixing Digital P.C.B. and disconnect 2 FFCs
- Left up Digital P.C.B.slightly so to disconnect connectors between Digital P.C.B. and Power & Digital I/F P.C.B.
- Remove RAM/Digital P.C.B. Module and put it beside chassis

Connect Extension Cables,
*between RAM/Digital P.C.B. Module and Power & Digital I/F P.C.B. with (RFKZ0260),

Caution : Red wire in the extension cable should be connected to (1) pin.


Power & Digital I/F P.C.B.
Insulation Board
Power & Digital I/F P.C.B. - RAM/Digital P.C.B. Module Extension Cable (RFKZ0260)
Red Wire (1 pin)
RAM/Digital P.C.B. Module

11.1.4. Checking and Repairing of HDD

1. Top Case

Remove 4 Screws (A) on side

Remove 3 Screws (B) on rear

Remove Top Case

2. HDD

Remove 2 Screws (A) from rear panel

Remove 1 FFC from ATAPI Connector

Remove 4 Pin Power Cable from Power & Digital I/F P.C.B.

Remove 4 Screws (B) to remove HDD Angle with HDD

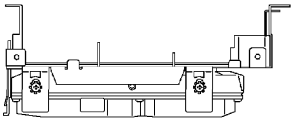
Connect HDD ATAPI Connector to Replacement HDD

Connect 4 Pin Power Cable to Replacement HDD

Put Replacement HDD on Insulation Board. Connect Extension Cables, *between Replacement HDD and Power & Digital I/F P.C.B. with (RFKZ0339)

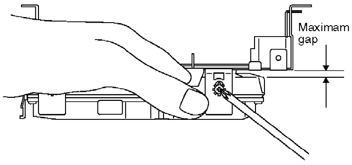
Caution for Removing HDD

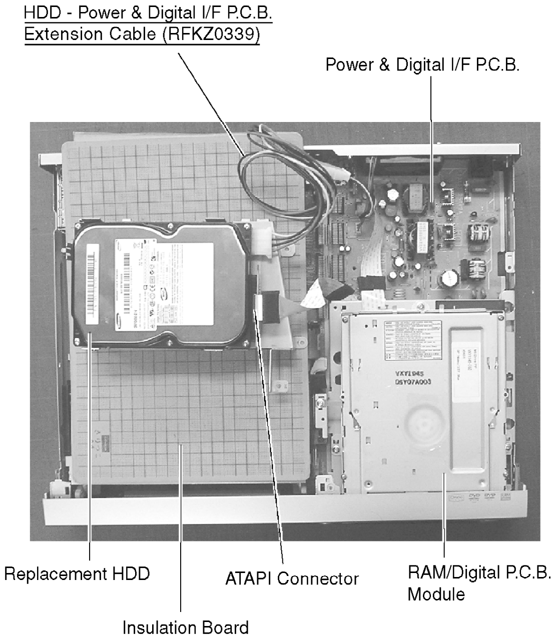
Put HDD with HDD Angle up and down inversely and remove 4 screws to remove HDD so as not to give a shock to HDD.



Caution for Attaching HDD

Put HDD up and down inversely, and put HDD Angle on to HDD and tighten 4 screws while lifting HDD Angle so as to keep maximum gap between HDD and HDD Angle.


Maximam gap


HDD - Power & Digital I/F P.C.B. Extension Cable (RFKZ0339)
Power & Digital I/F P.C.B.
Replacement HDD
ATAPI Connector
RAM/Digital P.C.B. Module
Insulation Board

11.2. Caution for Replacing Parts

11.2.1. Notice for replacing parts of VHS Mechanism

11.2.1.1. Regarding change of parts of VHS mechanism

The following parts are not compatible with past R4 Mechanism. Use parts of exclusive use.

Ref. No.	Part Name	Part Number		Pcs	
		Current	Previous		
101	RDD CYLINDER ASS'Y	VEG1697KIT	VEG1641KIT	1	*1
101-1	FPC HOLDER	VMD5464	VMD4983	1	
102	CAPSTAN MOTOR	VEM0800T	VEM0750T	1	
105	INTERMEDIATE GEAR	VDG1686	VDG1510	1	
106	MAIN CAM GEAR	VDG1685	VDG1511	1	
114	OPENER PIECE	VMD5466	VMD4252	1	
116	MAIN LEVER	VML3934	VML3624	1	
117	PINCH CHARGE ARM	VML3933	VML3626	1	
122	AC HEAD ASS'Y	L1AE00000044	L1AE00000036	1	
130	T BRAKE ARM	VXL3343	VXL3113	1	
135	SIDE PLATE L	VMD5468	VMD4255	1	
136	SIDE PLATE R	VMD5469	VMD4254	1	
137	CASSETTE HOLDER UNIT	VXA8265	VXA7110	1	
139	SECTOR GEAR	VXA8323	VXA7311	1	

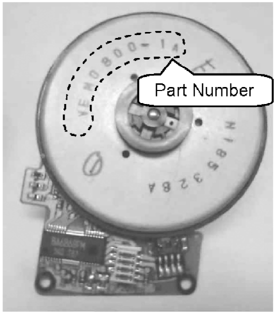
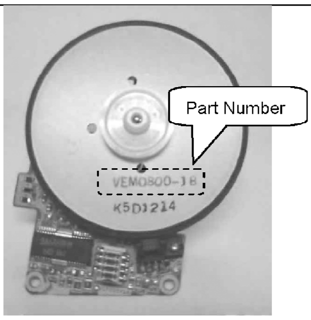
*1: Part Number of RDD CYLINDER ASS'Y is different depending on the model.

Capstan Motor (VEM0800T) used for current R4 Mechanism is not compatible with Capstan Motor (VEM0750T) of previous R4 Mechanism.

Therefore, confirm part number by Service Manual of individual models and use part of exclusive use.

11.2.2. Notice for Replacing Capstan Motor

[VEM0800-1A] is printed on capstan motor of replacement part.
[VEM0800-1B] is printed on capstan motor of product.
Though printed part numbers differ between product and replacement part, **[VEM0800-1A] and [VEM800-1B] have compatibility.**

Replacement Part **“VEM0800-1A”** or **“VEM0800-1B”**	Product **“VEM0800-1B”**
Bottom 	Bottom 
Top	Top

11.2.3. Items that should be done after replacing parts

√ :Necessary — :Unnecessary

	Reset IC7501 **(*Note1)**	Initialize IC7501 **(*Note1)**	Main Firm update**(*Note2)**	PG Shifter Automatic Adjustment **(*Note3)**	X-VALUE & LINEARITY (P2 and P3 Posts) Adjustment **(*Note4)**	HDD format
DD Cylinder	—	—	—	√	√	—
Main P.C.B.	√	√	—	—	—	—
IC6001	√	—	—	—	—	—
IC7501	—	√	—	—	—	—
Power & Digital I/F P.C.B.	—	—	—		—	√
IC37501 (EEPROM)	—	—	—	√	—	√
HDD	—	—	√	—	—	√

***Note1:**

Resetting or initializing Method

Resetting or initializing object	Condition of power	Short Terminal
IC6001	POWER ON	TL6004 (RESET_L) and TL6002 (GND)
IC7501	AC OFF	TW7501 (VDD_5V) and GND

Note2:

Please prepare latest firmware updating disc.

*** Main Firm is being recorded in HDD, but new HDD has no data.**

Writing Procedure of Main Firm:

<<Caution>>

(1) Writing of Main Firm needs 3, 4 minutes.

(2) Never cut the power of DVD Recorder until writing in Firmware ends.

(3) Initial settings and contents of reservation will not change if writing is normally completed.

1. **Prepare updating disc for firm ware.**
2. **Replace HDD.**
3. **Turn on power of DVD Recorder.**
4. **After [PLEASE WAIT] is displayed on FL., [HDD ERR] is displayed on FL.**
5. **Tray opens automatically.**
6. **Insert updating disc for Firmware and press OPEN/CLOSE key. (If a wrong disc was inserted, [NG DISK] [NO FVU] is displayed on FL.)**
7. **[LOAD] → [LD FVU] ←→ [M_FIRM] are displayed on FL alternately.**
8. **[MAIN] ←→ [UPD OK] blink alternately and Tray opens. Take out disc (Writing was finished).**
9. **Press Power button to turn off power.**
10. **Press Power button to turn on power.**
11. **[HELLO] → [SELF CHECK] are displayed on FL.**
12. **[UNFORMAT] is displayed on FL.**

13. After [UNFORMAT] was displayed, message to request FORMAT is displayed on TV screen.

14. Select [Yes] and press [ENTER] key to format HDD.

(After FORMAT, program in HDD will be lost, but Main firm will not be lost.
“Write of the main farm" is completed above.
*** Drive firm is not updated by above operation. If you wish update Drive firm, please prepare the disc for latest firmware update, and write it again.**
*** If the version of the firm you have prepared was same as or later than that has already been written in deck, 'UNSUPPORT' is displayed on FL.**
*** In a usual updating of firmware, writing is not performed when the timer reservation standby was not released.**

*Note3:

PG Shifter Automatic Adjustment Procedure

PROCEDURE			F.I.P. DISPLAY
Turn on the Service Mode. 1. Set Drive Select to VHS and press the [STOP] and [EJECT] key simultaneously for more than 3 seconds.			00000
Activate the Service Mode 2. (Auto tracking will be turned off) 2. Press the [STOP] and [EJECT] key simultaneously twice.			20000
Put it in PG adjustment mode. 3. Press the EJECT key for more than 3 seconds.			2 00
Set it adjustment No.1. 4. Press the CH UP key once.			2 100
Insert the alignment cassette tape (VFM8080HQFP). 5. The PG Shifter Adjustment starts automatically.			2 100
Result	Success	Cassette tape is ejected automatically.	2 100
	Error	NG1 in the PG Shifter Automatic Adjustment (The cylinder rotation is unstable during the automatic adjustment.)	F20
		NG2 in the PG Shifter Automatic Adjustment (The vertical sync signal is lacked while over 5 seconds on the alignment tape.)	F21
		NG3 in the PG Shifter Automatic Adjustment (The installing position of Heads to the cylinder is out of specification.	F22
		NG4 in the PG Shifter Automatic Adjustment (The servo is not locked to the cylinder for more than 10 sec.)	F23
Exit from Service Mode. 6. Press [STOP] and [EJECT] keys simultaneously in 6 times. * Then the FIP becomes normal indication.			10:00 (Normal Indication)

***Note4:**

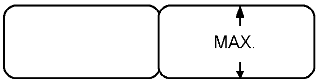
X-VALUE & LINEARITY (P2 and P3 Posts) Adjustment Procedure

1. Set the Auto Tracking to off.
   (1) Set Drive Select to VHS and press the [STOP] and [EJECT] keys simultaneously for more than 3 seconds to enter Service Mode.
   (2) Press [FF] and [EJECT] keys simultaneously twice to activate Service Mode 2, and then Auto-Tracking is turned off.
2. Perform the X-VALUE ADJUSTMENT

X-VALUE ADJUSTMENT

1. After turning off the Auto tracking, playback the alignment Tape and press [CH UP] and [CH DOWN] keys simultaneously to adjust the tracking to FIX value.
2. Adjust A/C Head Base so that the envelope becomes maximum level. (It is described on "**5-2. Tape Interchangeability Adjustment**" in "**R4 Mechanism**" that is separated volume.)

Alignment Tape	VFM8080HQFP
Test Point of Playback Envelope	TW3001 (or TW4502)

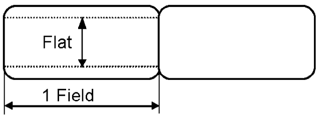


Playback Envelope

LINEARITY ADJUSTMENT

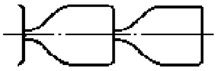
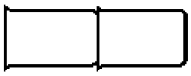
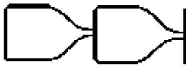
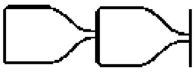
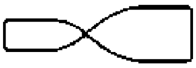
1. After turning off the Auto tracking, playback the alignment Tape and press [CH UP] and [CH DOWN] keys simultaneously to adjust the tracking to FIX value.
2. Adjust the LINEARITY so that the envelope is flat when moving tracking to (+) and (-) directions.

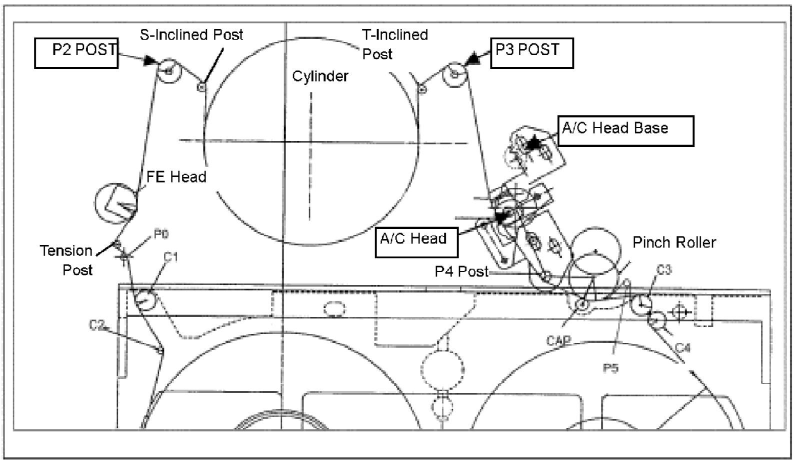
Alignment Tape	VFM8080HQFP
Test Point of Playback Envelope	TW3001 (or TW4502)



Playback Envelope

- Main symptoms and Adjustment point

Envelope	Post Name		Adjustment Method
	P2 Post ↺		Turn P2 Post counter-clockwise (Approx. 1/2 revolution)
	P2 Post ↻		Turn P2 Post clockwise (Approx. 1/4 revolution)
	P3 Post ↻		Turn P3 Post clockwise (Approx. 1/2 revolution)
	P3 Post ↺		Turn P3 Post counter-clockwise (Approx. 1/4 revolution)
	P2 Post ↻	P3 Post ↺	Turn P2 Post clockwise (Less than 1 revolution) Turn P3 Post counter-clockwise (Less than 1revolution)



11.3. Standard Inspection Specifications after Making Repairs

After making repairs, we recommend performing the following inspection, to check normal operation.

No.	Procedure	Item to Check
1	**Turn on the power, and confirm items pointed out.**	**Items pointed out should reappear.**
2	**Insert RAM disc.**	**The Panasonic RAM disc should be reco**
3	**Enter the EE (TU IN / AV IN - AV OUT) mode.**	**No abnormality should be seen in the pic sound or operation.**
4	**Perform auto recording and playback for one minute using the RAM disc.**	**No abnormality should be seen in the pic sound or operation.** ***Panasonic DVD-RAM disc should be use recording and playback.**
5	**If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.**	**No abnormality should be seen in the pic sound or operation.**
6	**Models with SD Card Slot or DV Input Jack: In case of that the trouble is caused by SD card or DV terminal.**	**Models with SD Card Slot or DV Input Jac** **1) SD card: Check to be able to display a the picture.** **2) DV terminal: Check to be able to recor DVC.**
7	**After checking and making repairs, upgrade the firmware to the latest version.**	**Make sure that [FIRM_SUCCESS] appear FL displays.** ***[UNSUPPORT] display means the unit is updated to newest same version. Then v up is not necessary.**
8	**Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).**	**Make sure that [CLR] appears in the FL d After checking it, turn the power off.**

Use the following checklist to establish the judgement criteria for the picture and sound.

Item	Contents	Check	Item	Contents
Picture	Block noise		Sound	Distorted sound
	Crosscut noise			Noise (static, background noise, etc.)
	Dot noise			The sound level is too low.
	Picture disruption			The sound level is too high.
	Not bright enough			The sound level changes.
	Too bright			
	Flickering color			
	Color fading			

12. Block Diagram

12.1. Power Supply Block Diagram

12.2. Analog Video Block Diagram

12.3. Analog Audio Block Diagram

12.4. Analog Timer Block Diagram

12.5. System Control & Servo Block Diagram

12.6. HDMI Block Diagram

13. Schematic Diagram

13.1. Interconnection Schematic Diagram

13.2. Power Supply (1/4) Section (Power & Digital I/F P.C.B.(1/2)) Schematic Diagram (P)

13.3. Power Supply (2/4) Section (Power & Digital I/F P.C.B.(1/2)) Schematic Diagram (P)

13.4. Power Supply (3/4) Section (Power & Digital I/F P.C.B.(1/2)) Schematic Diagram (P)

13.5. Power Supply (4/4) Section (Power & Digital I/F P.C.B.(1/2)) Schematic Diagram (P)

13.6. Digital I/F (1/4) Section (Power & Digital I/F P.C.B.(2/2)) Schematic Diagram (IF)

13.7. Digital I/F (2/4) Section (Power & Digital I/F P.C.B.(2/2))

Schematic Diagram (IF)

13.8. Digital I/F (3/4) Section (Power & Digital I/F P.C.B.(2/2)) Schematic Diagram (IF)

13.9. Digital I/F (4/4) Section (Power & Digital I/F P.C.B.(2/2)) Schematic Diagram (IF)

13.10. Video Section (Main P.C.B.(1/4)) Schematic Diagram Schematic Diagram (V)

13.11. VHS Audio Section (Main P.C.B.(2/4)) Schematic Diagram (A)

13.12. Syscon/Servo/Timer (1/4) Section (Main P.C.B.(3/4)) Schematic Diagram (S)

13.13. Syscon/Servo/Timer (2/4) Section (Main P.C.B.(3/4)) Schematic Diagram (S)

13.14. Syscon/Servo/Timer (3/4) Section (Main P.C.B.(3/4)) Schematic Diagram (S)

13.15. Syscon/Servo/Timer (4/4) Section (Main P.C.B.(3/4)) Schematic Diagram (S)

13.16. I/O Tuner Section (1/4) (Main P.C.B.(4/4)) Schematic Diagram (I)

13.17. I/O Tuner Section (2/4) (Main P.C.B.(4/4)) Schematic Diagram (I)

13.18. I/O Tuner Section (3/4) (Main P.C.B.(4/4)) Schematic Diagram (I)

13.19. I/O Tuner Section (4/4) (Main P.C.B.(4/4)) Schematic Diagram (I)

13.20. HDMI Schematic Diagram

13.21. SD Card/DV Jack Schematic Diagram

13.22. Front (R) Schematic Diagram

13.23. Front Jack Schematic Diagram

14. Printed Circuit Board

14.1. Power & Digital I/F P.C.B.

14.1.1. Power & Digital I/F P.C.B.

14.1.2. Power & Digital I/F P.C.B. Address Information

14.2. Main P.C.B.

14.2.1. Main P.C.B. (1/4 Section)

14.2.2. Main P.C.B. (2/4 Section)

14.2.3. Main P.C.B. (3/4 Section)

14.2.4. Main P.C.B. (4/4 Section)

14.2.5. Main P.C.B. Address Information

14.3. HDMI P.C.B.

14.4. SD Card/DV Jack P.C.B.

14.5. Front (L) Jack P.C.B., Front (R) P.C.B.

15. Appendix for Schematic Diagram

15.1. Voltage and Waveform Chart

15.1.1. Power & Digital I/F P.C.B.

15.1.2. Main P.C.B.

15.1.3. HDMI P.C.B.

15.1.4. Front (R) Drive P.C.B.

15.1.5. P59001 Connector

15.1.6. Waveform Chart

16. Miscellaneous

16.1. Abbreviations

16.1.1. DVD

INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	AUDIO RF
	ASI	SERVO AMP INVERTED INPUT
	ASO	SERVO AMP OUTPUT
	ASYNC	AUDIO WORD DISTINCTION SYNC
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
	BYTCK	BYTE CLOCK
C	CAV	CONSTANT ANGULAR VELOCITY
	CBDO	CAP. BLACK DROP OUT
	CD	COMPACT DISC
	CDSCK	CD SERIAL DATA CLOCK
	CDSRDATA	CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCK SELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIP SELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT

INITIAL/LOGO		ABBREVIATIONS
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ CLOCK
	DMUTE	DIGITAL MUTE CONTROL
	DO	DROP OUT
	DOUT0~UP	DATA OUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLF	DATA SLICE LOOP FILTER
	DVD	DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/ 40.5MHz)
	ETSCLK	EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP INVERTED INPUT
	FEO	FOCUS ERROR AMP OUTPUT
	FG	FREQUENCY GENERATOR
	FSC	FREQUENCY SUB CARRIER
	FSCK	FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE

INITIAL/LOGO		ABBREVIATIONS
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	INTERPOLATION FLAG
	IREF	I (CURRENT) REFERENCE
	ISEL	INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK
M	MA0~UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	MEMORY SERIAL COMMAND DATA
	MDQ0~UP	MEMORY DATA INPUT/OUTPUT
	MDQM	MEMORY DATA I/O MASK
	MLD	MEMORY SERIAL COMMAND LOAD
	MPEG	MOVING PICTURE EXPERTS GROUP
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
	OSD	ON SCREEN DISPLAY
P	P1~UP	PORT
	PCD	CD TRACKING PHASE DIFFERENCE
	PCK	PLL CLOCK
	PDVD	DVD TRACKING PHASE DIFFERENCE
	PEAK	CAP. FOR PEAK HOLD
	PLLCLK /	CHANNEL PLL CLOCK
	PLLOK	PLL LOCK
	PWMCTL	PWM OUTPUT CONTROL
	PWMDA	PULSE WAVE MOTOR DRIVE A
	PWMOA, B	PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE OUTPUT
	RS	(CD-ROM) REGISTER SELECT
	RSEL	RF POLARITY SELECT
	RST	RESET
	RSV	RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK RECEIVER
	SCL	SERIAL CLOCK
	SCLK	SERIAL CLOCK
	SDA	SERIAL DATA
	SEG0~UP	FL SEGMENT OUTPUT
	SELCLK	SELECT CLOCK
	SEN	SERIAL PORT ENABLE
	SIN1, 2	SERIAL DATA IN
	SOUT1, 2	SERIAL DATA OUT
	SPDI	SERIAL PORT DATA INPUT
	SPDO	SERIAL PORT DATA OUTPUT
	SPEN	SERIAL PORT R/W ENABLE
	SPRCLK	SERIAL PORT READ CLOCK
	SPWCLK	SERIAL PORT WRITE CLOCK
	SQCK	SUB CODE Q CLOCK
	SQCX	SUB CODE Q DATA READ CLOCK
	SRDATA	SERIAL DATA
	SRMADR	SRAM ADDRESS BUS
	SRMDT0~7	SRAM DATA BUS 0~7
	SS	START/STOP
	STAT	STATUS
	STCLK	STREAM DATA CLOCK
	STD0~UP	STREAM DATA
	STENABLE	STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY SELECT
	STVALID	STREAM DATA VALIDITY
	SUBC	SUB CODE SERIAL
	SBCK	SUB CODE CLOCK
	SUBQ	SUB CODE Q DATA
	SYSCLK	

		SYSTEM CLOCK

INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSS SIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING BALANCE)
	VDD	DRAIN POWER SUPPLY VOLTAGE
	VFB	VIDEO FEED BACK
	VREF	VOLTAGE REFERENCE
	VSS	SOURCE POWER SUPPLY VOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER

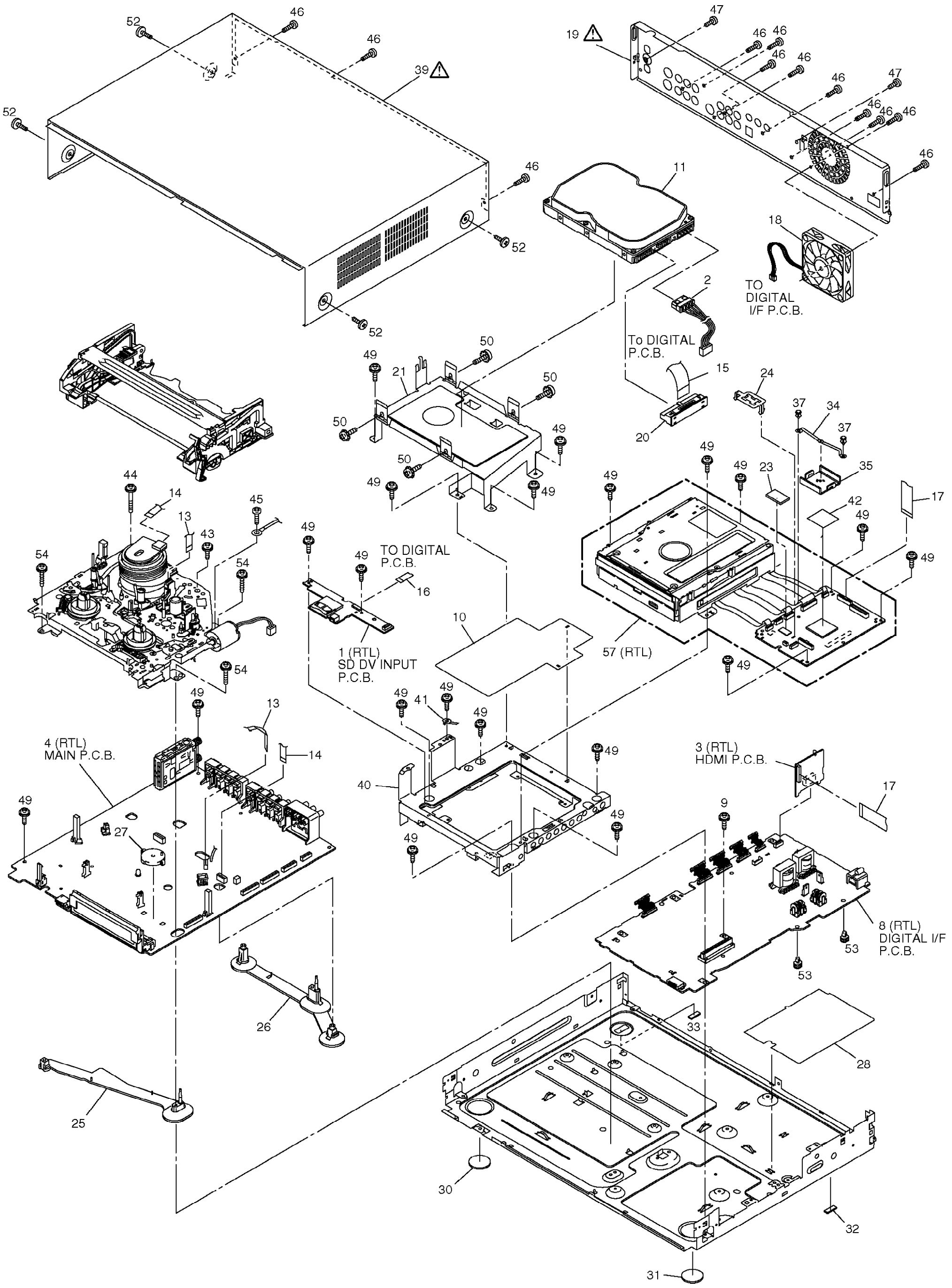
INITIAL/LOGO		ABBREVIATIONS
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPT REQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIP SELECT
	XVDS	X V-DEC CONTROL BUS STROBE
	XVSYNCO	X VERTICAL SYNC OUTPUT

16.1.2. VHS

17. Parts and Exploded Views

17.1. Exploded Views

17.1.1. Casing Parts & Mechanism Section1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11
18
TO
DIGITAL
I/F P.C.B.
2
To DIGITAL
P.C.B.
15
24
20
37
34
37
35
50
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21
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23
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17
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49
44
14
13
45
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54
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49
TO DIGITAL
P.C.B.
16
10
1 (RTL)
SD DV INPUT
P.C.B.
57 (RTL)
49
54
49
13
14
4 (RTL)
MAIN P.C.B.
49
41
49
49
49
49
40
3 (RTL)
HDMI P.C.B.
17
9
49
27
49
49
8 (RTL)
DIGITAL I/F
P.C.B.
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53
26
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28
25
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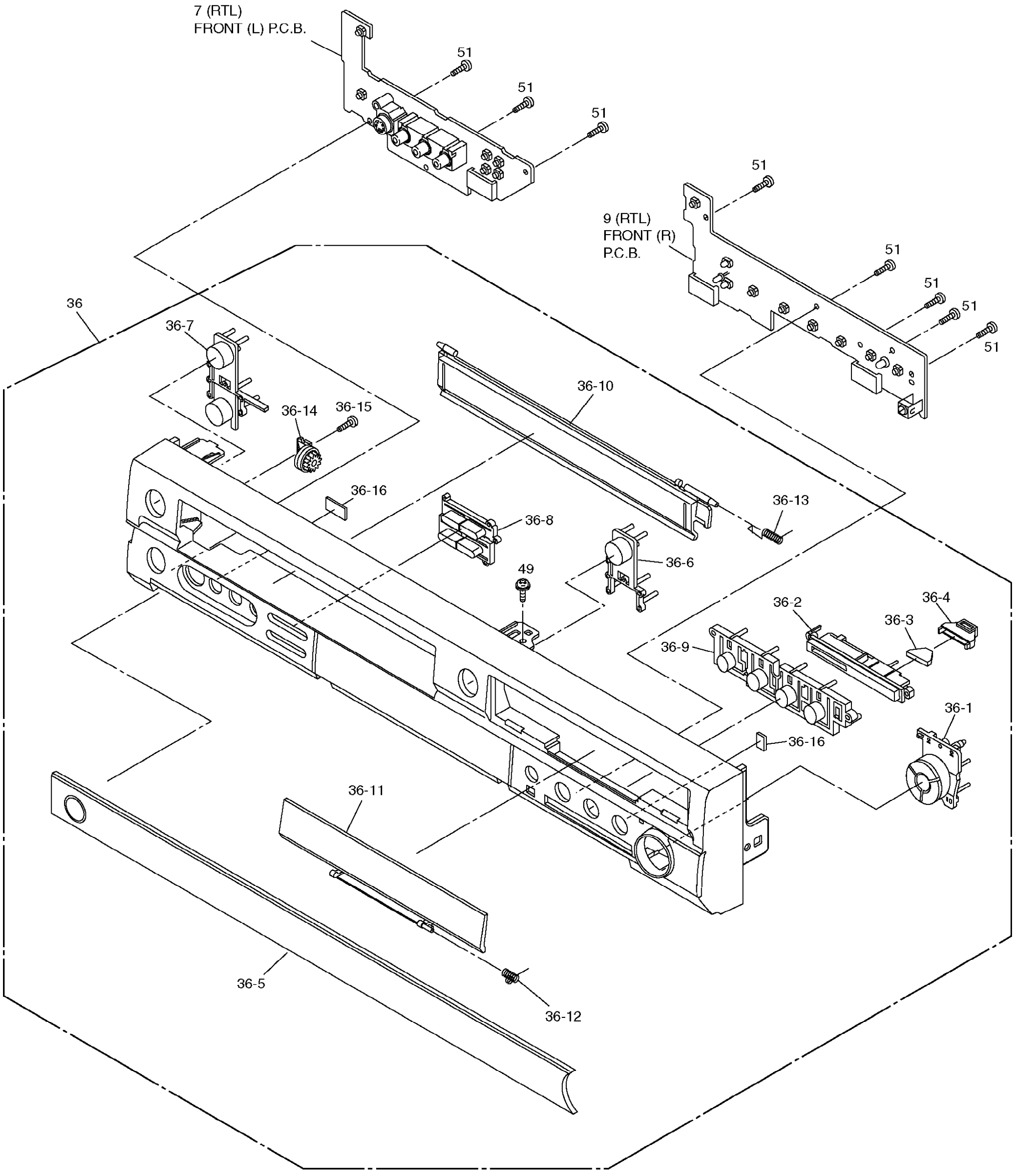
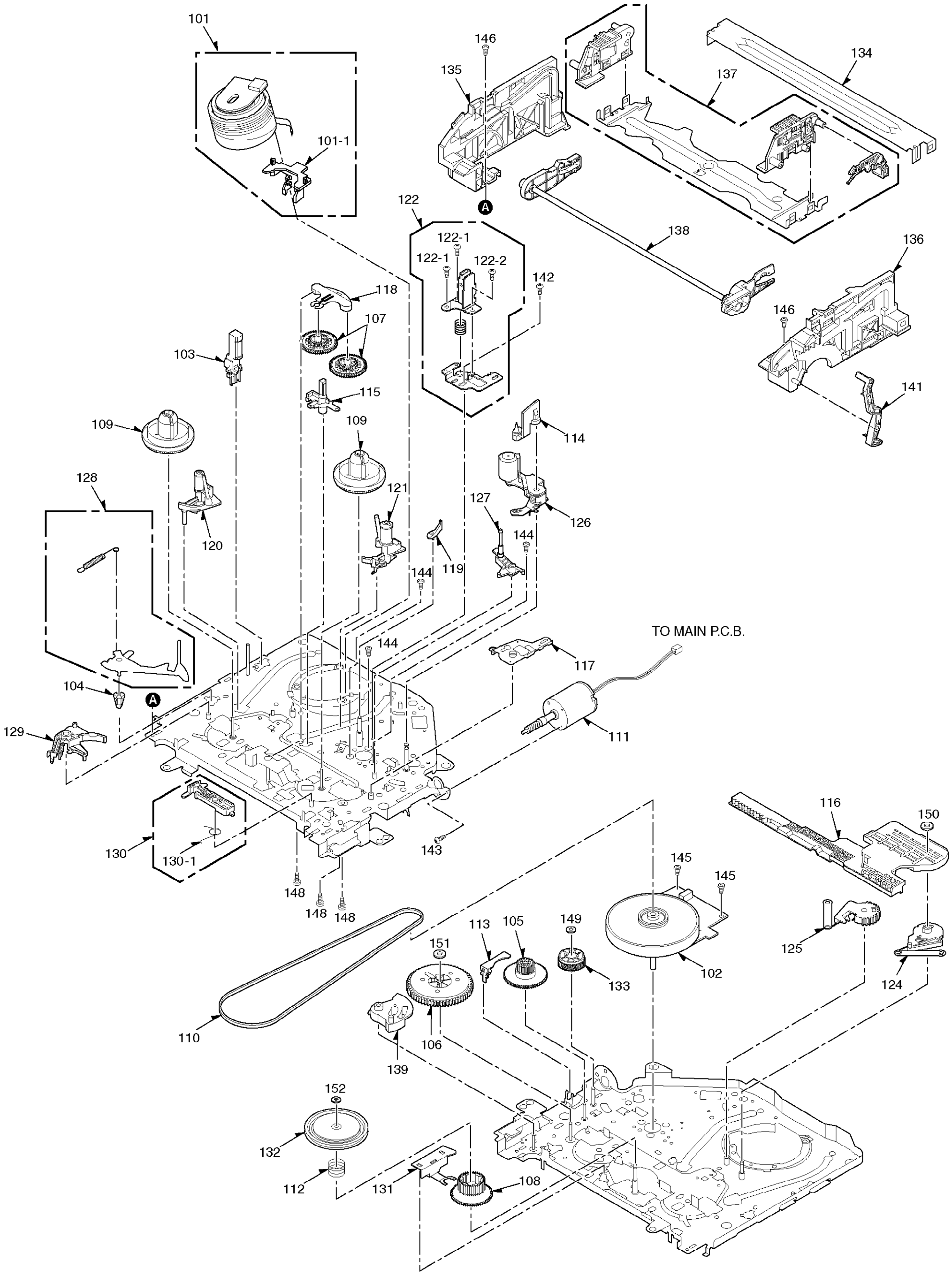
17.1.2. Casing Parts & Mechanism Section 2


7 (RTL)
FRONT (L) P.C.B.
51
51
51
51
9 (RTL)
FRONT (R)
P.C.B.
51
51
51
51
36
36-7
36-14
36-15
36-10
36-16
36-13
36-8
36-6
49
36-2
36-4
36-3
36-9
36-1
36-16
36-11
36-5
36-12

17.1.3. VHS Mechanism Section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101-1
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137
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A
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122-1
122-2
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103
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109
109
114
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126
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119
144
144
117
TO MAIN P.C.B.
104
A
129
111
130
130-1
143
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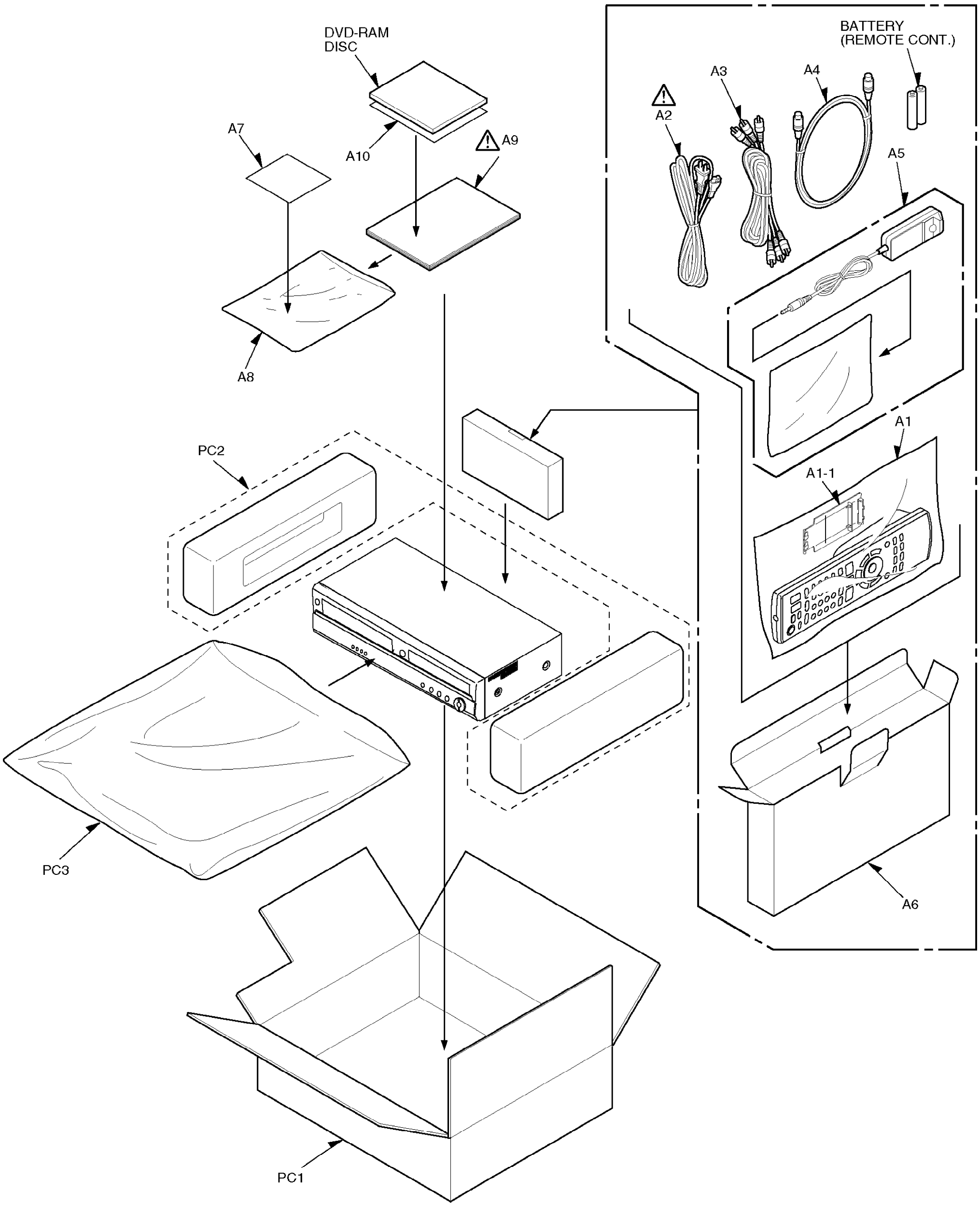
17.1.4. Packing & Accessories Section



17.2. Replacement Parts List

Notes:

***Important safety notice:**

Components identified by ⚠ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

***Warning: This product uses a laser diode. Refer to caution statements.**

***Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).**

***Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).**

***The marking (RTL) indicates the retention time is limited for this item. After the discontinuation**

of this assembly in production, it will no longer be available.
***"(IA)", mark in Remarks indicate language of instruction manual. [(IA): English]**
***All parts are supplied by PAVC-CSG.**

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEP06G25BT	MAIN P.C.B.		
B7501	CR2354-1GUF	LITHIUM BATTERY	1	
C2001	ECJ1VC1H330J	50V 33P	1	
C2002	ECJ1VB0J105K	6.3V 1U	1	
C2003	ECJ1VF1A105Z	10V 1U	1	
C2051	ECJ2FB0J106K	6.3V 10U	1	
C2052	ECJ2FB0J106K	6.3V 10U	1	
C2053	ECEA1CKS100	16V 10U	1	
C2054	ECJ1VB1H392K	50V 3900P	1	
C2055	ECJ1VF1C104Z	16V 0.1U	1	
C2099	ECJ1XC1H681J	50V 680P	1	ECJ1VC1H681J
C2501	ECJ1VF1C104Z	16V 0.1U	1	
C2502	ECEA1AKS221	10V 220U	1	
C2504	ECJ1VB1E223K	25V 0.022U	1	
C2505	ECJ1VB1E223K	25V 0.022U	1	
C2506	ECJ1VB1A224K	10V 0.22U	1	
C2507	ECJ1VB1H102K	50V 1000P	1	
C2508	ECJ1XB1H182K	50V 1800P	1	
C2509	ECEA1CKS220	16V 22U	1	
C2510	ECJ1XB1C104K	16V 0.1U	1	
C2511	ECJ1XB1C104K	16V 0.1U	1	
C2512	ECJ1XB1C104K	16V 0.1U	1	
C2513	ECJ1VF1A105Z	10V 1U	1	
C2515	ECJ1VF1H103Z	50V 0.01U	1	
C2518	ECJ1VF1H103Z	50V 0.01U	1	
C2519	ECJ1VF1H103Z	50V 0.01U	1	
C2551	ECJ1XB1C473K	16V 0.047U	1	
C2552	ECJ1VB1C683K	16V 0.068U	1	
C2561	ECJ1VB1C683K	16V 0.068U	1	
C2562	ECJ1XB1C473K	16V 0.047U	1	
C2571	ECA1CM221	16V 220U	1	
C3001	ECJ1XC1H151J	50V 150P	1	
C3002	ECJ1XB1C104K	16V 0.1U	1	
C3003	ECJ1XB1C104K	16V 0.1U	1	
C3005	ECJ1XC1H220J	50V 22P	1	
C3006	ECJ1XB1C104K	16V 0.1U	1	
C3007	ECJ1VB0J105K	6.3V 1U	1	
C3008	ECEA1HKA4R7	50V 4.7U	1	
C3009	ECJ1VB0J105K	6.3V 1U	1	
C3010	ECJ1VB0J105K	6.3V 1U	1	
C3011	ECJ1XB1C104K	16V 0.1U	1	
C3012	ECEA0JKA470	6.3V 47U	1	
C3014	ECJ1XB1C104K	16V 0.1U	1	
C3015	ECJ1VB0J105K	6.3V 1U	1	
C3017	ECJ1XB1C104K	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3019	ECJ1XB1C104K	16V 0.1U	1	
C3020	F2A1H3R3A234	50V 3.3U	1	
C3021	F2A1V100A184	35V 10U	1	
C3023	ECJ1VB1H103K	50V 0.01U	1	
C3024	ECJ1XC1H331J	50V 330P	1	
C3025	ECJ1VF1H103Z	50V 0.01U	1	
C3027	ECJ1VF1H103Z	50V 0.01U	1	
C3028	ECEA1HKA4R7	50V 4.7U	1	
C3029	F2A1HR47A234	50V 47U	1	
C3030	ECJ1VB1E223K	25V 0.022U	1	
C3031	ECJ1VB1C333K	16V 0.033U	1	
C3032	ECEA1HKA4R7	50V 4.7U	1	
C3033	ECJ1XB1C104K	16V 0.1U	1	
C3034	F2A1H2R2A234	50V 2.2U	1	
C3035	ECJ1VB1H472K	50V 4700P	1	
C3036	ECEA0JKA470	6.3V 47U	1	
C3037	ECJ1XB1C104K	16V 0.1U	1	
C3038	ECJ1XC1H040C	CHIP 1608	1	
C3039	F2A1H1R0A234	50V 1U	1	
C3040	ECJ1VF1H103Z	50V 0.01U	1	
C3041	ECJ1VF1H103Z	50V 0.01U	1	
C3042	ECEA0JKS470	6.3V 47U	1	
C3043	ECJ2FB0J106K	6.3V 10U	1	
C3044	ECJ1XB1C104K	16V 0.1U	1	
C3048	ECJ1VB1H103K	50V 0.01U	1	
C3050	ECJ1XB1C104K	16V 0.1U	1	
C3051	ECJ1VB0J105K	6.3V 1U	1	
C3052	F2A1A470A388	10V 47U	1	
C3053	ECJ1XB1C104K	16V 0.1U	1	
C3074	ECJ1XB1C104K	16V 0.1U	1	
C3080	ECJ1VB1H103K	50V 0.01U	1	
C3701	ECEA0JKS470	6.3V 47U	1	
C3702	ECJ1VF1C104Z	16V 0.1U	1	
C3703	ECJ1VF1H103Z	50V 0.01U	1	
C3704	ECJ1XB1C104K	16V 0.1U	1	
C3705	ECJ1VB1H103K	50V 0.01U	1	
C3706	ECJ1VF1C104Z	16V 0.1U	1	
C3707	ECEA0JKS220	6.3V 22U	1	
C3709	ECEA0JKS470	6.3V 47U	1	
C3710	ECJ1XB1C104K	16V 0.1U	1	
C3711	ECJ1VF1H103Z	50V 0.01U	1	
C3712	ECJ1VB0J105K	6.3V 1U	1	
C3713	ECJ1VB0J105K	6.3V 1U	1	
C3714	ECEA1CKS100	16V 10U	1	
C3715	ECJ1XB1C104K	16V 0.1U	1	
C3716	ECJ1VB0J105K	6.3V 1U	1	
C3717	ECJ1VB0J105K	6.3V 1U	1	
C3718	ECJ1XB1C104K	16V 0.1U	1	
C3719	ECJ1VF1H103Z	50V 0.01U	1	
C3720	ECJ1XB1C104K	16V 0.1U	1	
C3721	ECJ1VB0J105K	6.3V 1U	1	
C3722	ECJ1VB0J105K	6.3V 1U	1	
C3723	ECJ1VB0J105K	6.3V 1U	1	
C3724	ECJ1VF1H103Z	50V 0.01U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3725	ECJ1VF1H103Z	50V 0.01U	1	
C3726	ECJ1VF1C104Z	16V 0.1U	1	
C3727	ECA0JM471G	6.3V 470U	1	
C3728	ECA0JM471G	6.3V 470U	1	
C3729	ECJ1VB0J105K	6.3V 1U	1	
C3730	ECA0JM471G	6.3V 470U	1	
C3731	ECJ1VB0J105K	6.3V 1U	1	
C3732	ECJ1VF1H103Z	50V 0.01U	1	
C3733	ECA0JM471G	6.3V 470U	1	
C3734	ECEA0JKS470	6.3V 47U	1	
C3735	ECA0JM471G	6.3V 470U	1	
C3737	ECJ1VB0J105K	6.3V 1U	1	
C3738	ECJ1VB0J105K	6.3V 1U	1	
C3739	ECJ1XB1C104K	16V 0.1U	1	
C3740	ECJ1XB1C104K	16V 0.1U	1	
C3741	ECJ1VB0J105K	6.3V 1U	1	
C3742	ECJ1VB0J105K	6.3V 1U	1	
C3743	ECJ1VB0J105K	6.3V 1U	1	
C3744	ECJ1VF1H103Z	50V 0.01U	1	
C3749	ECJ1VB0J105K	6.3V 1U	1	
C3751	ECJ1VB0J105K	6.3V 1U	1	
C3752	ECJ1VB0J105K	6.3V 1U	1	
C3753	ECJ1VB0J105K	6.3V 1U	1	
C3754	ECJ1XB1C104K	16V 0.1U	1	
C3901	ECJ1VF1H103Z	50V 0.01U	1	
C3918	ECJ1VF1C104Z	16V 0.1U	1	
C3919	ECJ1VF1H103Z	50V 0.01U	1	
C3920	ECJ1VF1C104Z	16V 0.1U	1	
C3921	ECJ1VF1H103Z	50V 0.01U	1	
C3933	F2A0J471A247	6.3V 470U	1	
C4004	ECJ1XB1H182K	50V 1800P	1	
C4005	ECEA0JKS220	6.3V 22U	1	
C4006	ECEA1HKA4R7	50V 4.7U	1	
C4007	ECJ1XB1H182K	50V 1800P	1	
C4008	ECEA1HKS3R3	50V 3.3U	1	
C4009	ECEA0JKA330B	6.3V 33U	1	
C4011	ECJ1VB1H103K	50V 0.01U	1	
C4012	ECEA1HKA4R7	50V 4.7U	1	
C4013	ECJ1VF1H103Z	50V 0.01U	1	
C4017	ECEA1CKS100	16V 10U	1	
C4019	ECEA1CKS100	16V 10U	1	
C4081	ECJ1VB1E223K	25V 0.022U	1	
C4082	ECJ1XB1H471K	50V 470P	1	
C4083	ECEA0JKS470	6.3V 47U	1	
C4084	ECJ1XB1H182K	50V 1800P	1	
C4086	ECQB1H333JF	50V 0.033U	1	
C4501	ECQB1H473JF3	50V 0.047U	1	
C4502	ECEA1CKS100	16V 10U	1	
C4503	ECEA1CKS100	16V 10U	1	
C4504	ECEA1CKS100	16V 10U	1	
C4505	ECEA0JKA330B	6.3V 33U	1	
C4506	ECEA1CKS100	16V 10U	1	
C4507	ECEA0JKS220	6.3V 22U	1	
C4508	ECJ1VB1C333K	16V 0.033U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4509	ECJ1VF1H103Z	50V 0.01U	1	
C4510	ECJ1VF1H103Z	50V 0.01U	1	
C4511	ECJ1XB1C104K	16V 0.1U	1	
C4512	ECJ1VB1A224K	10V 0.22U	1	
C4513	ECEA0JKS220	6.3V 22U	1	
C4514	ECEA1CKS100	16V 10U	1	
C4515	ECEA0JKA330B	6.3V 33U	1	
C4516	ECEA1CKS100	16V 10U	1	
C4517	ECEA0JKS220	6.3V 22U	1	
C4518	ECJ1VF1H103Z	50V 0.01U	1	
C4519	ECJ1VF1C104Z	16V 0.1U	1	
C4520	ECEA0JKS220	6.3V 22U	1	
C4521	ECEA1CKS100	16V 10U	1	
C4522	ECQB1H473JF3	50V 0.047U	1	
C4523	ECEA0JKS220	6.3V 22U	1	
C4524	ECJ1XB1C104K	16V 0.1U	1	
C4525	ECEA1CKS101	16V 100U	1	
C4526	ECEA1CKS100	16V 10U	1	
C4534	ECQB1H153JF3	50V 0.015U	1	
C4535	ECQB1H153JF3	50V 0.015U	1	
C4537	ECUV1H560GCN	50V 1000P	1	ECJ2VC1H560G
C4538	ECJ1VF1H103Z	50V 0.01U	1	
C4773	ERJ3GEYJ682	1/10W 6.8K	1	
C4774	ERJ3GEYJ682	1/10W 6.8K	1	
C4801	ECJ1XC1H102J	50V 1000P	1	
C4802	ECJ1XC1H102J	50V 1000P	1	
C4803	F2A1E470A205	25V 47U	1	
C4804	F2A1E470A205	25V 47U	1	
C4805	ECEA1CKS100	16V 10U	1	
C4806	ECEA1CKS100	16V 10U	1	
C4807	F2A1E470A205	25V 47U	1	
C4808	F2A1E470A205	25V 47U	1	
C4809	ECEA1CKS100	16V 10U	1	
C4810	ECEA1HKA4R7	50V 4.7U	1	
C4811	ECEA1CKS100	16V 10U	1	
C4812	ECEA1CKS100	16V 10U	1	
C4813	ECEA1CKS100	16V 10U	1	
C4814	F2A1C100A019	16V 10U	1	
C4815	F2A1C100A019	16V 10U	1	
C4817	ECJ1VB1C105K	16V 1U	1	
C4818	ECJ1VF1C104Z	16V 0.1U	1	
C4819	ECEA1CKS100	16V 10U	1	
C4820	ECEA1CKS100	16V 10U	1	
C4821	ECJ1VB1C105K	16V 1U	1	
C4822	ECEA1CKS100	16V 10U	1	
C4823	F2A1C100A019	16V 10U	1	
C4824	ECEA1CKS100	16V 10U	1	
C4825	ECEA1CKS100	16V 10U	1	
C4826	ECEA1CKS100	16V 10U	1	
C4827	F2A1C100A019	16V 10U	1	
C4829	ECEA1CKS100	16V 10U	1	
C4830	ECEA1CKS100	16V 10U	1	
C4831	ECJ1VF1C104Z	16V 0.1U	1	
C4832	F2A0J470A599	6.3V 47U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4833	ECEA1CKS100	16V 10U	1	
C4834	ECA1CM221	16V 220U	1	
C4836	ECEA1CKS100	16V 10U	1	
C4837	ECEA1HKS010	50V 1U	1	
C4840	ECJ1VF1C104Z	16V 0.1U	1	
C4841	ECQV1H104JL	50V 0.1U	1	
C4842	ECJ1VF1C104Z	16V 0.1U	1	
C4843	F2A1C471A236	16V 470U	1	
C4844	ECJ1VF1C104Z	16V 0.1U	1	
C4845	ECJ1VF1C104Z	16V 0.1U	1	
C5001	ECJ1VB1H103K	50V 0.01U	1	
C5002	ECJ1VB1H103K	50V 0.01U	1	
C5003	ECJ1VB1H103K	50V 0.01U	1	
C5004	ECJ1VB1H103K	50V 0.01U	1	
C5005	ECJ1XB1C104K	16V 0.1U	1	
C5006	F2A0J101A245	6.3V 100U	1	
C5007	ECJ1VF1C104Z	16V 0.1U	1	
C5008	ECJ1VB0J105K	6.3V 1U	1	
C6001	ECJ1VC1H180J	50V 18P	1	
C6002	ECJ1XC1H220J	50V 22P	1	
C6003	ECJ1VF1C104Z	16V 0.1U	1	
C6005	ECEA1EKS3R3	25V 3.3	1	
C6008	ECJ1VC1H471J	50V 470P	1	
C6009	ECJ1VF1H103Z	50V 0.01U	1	
C6010	ECJ1VC1H120J	50V 12P	1	
C6011	ECJ1VC1H120J	50V 12P	1	
C6012	ECJ1VF1C104Z	16V 0.1U	1	
C6014	ECJ1VB1H102K	50V 1000P	1	
C6015	ECJ1VB1C333K	16V 0.033U	1	
C6016	ECJ1VB1H102K	50V 1000P	1	
C6019	ECJ2XF1H104Z	50V 0.1U	1	
C6020	ECJ1VB1H102K	50V 1000P	1	
C6100	ECJ1VF1C104Z	16V 0.1U	1	
C6101	ECJ1VF1H103Z	50V 0.01U	1	
C6102	ECJ1VF1A105Z	10V 1U	1	
C6103	ECJ1VC1H561J	50V 560P	1	
C6104	ECJ1VF1H103Z	50V 0.01U	1	
C6308	ECJ1VB0J105K	6.3V 1U	1	
C6801	ECJ1VF1C104Z	16V 0.1U	1	
C7301	ECEA1HKS2R2	50V 2.2U	1	
C7302	ECJ1VB1C333K	16V 0.033U	1	
C7303	ECJ1XB1C104K	16V 0.1U	1	
C7304	ECJ1VB1E223K	25V 0.022U	1	
C7305	ECJ1XB1C104K	16V 0.1U	1	
C7306	ECEA1HKS3R3	50V 3.3U	1	
C7307	ECEA1HKSR33	50V 0.33U	1	
C7308	ECEA1CKS100	16V 10U	1	
C7309	ECJ1VF1C334Z	16V 0.33U	1	
C7310	ECJ1XB1C104K	16V 0.1U	1	
C7311	ECJ1VB1A224K	10V 0.22U	1	
C7312	ECJ1VB1H102K	50V 1000P	1	
C7313	ECEA1HKA4R7	50V 4.7U	1	
C7314	ECEA1HKS2R2	50V 2.2U	1	
C7315	ECEA1HKS2R2	50V 2.2U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7316	**ECJ1VB1E223K**	**25V 0.022U**	**1**	
C7317	**ECJ1VB1E223K**	**25V 0.022U**	**1**	
C7318	**ECEA1HKS2R2**	**50V 2.2U**	**1**	
C7319	**ECEA0JKS470**	**6.3V 47U**	**1**	
C7320	**ECJ1VF1H103Z**	**50V 0.01U**	**1**	
C7321	**ECJ1VB1C105K**	**16V 1U**	**1**	
C7322	**ECJ1VB1C105K**	**16V 1U**	**1**	
C7401	**ECEA1HKS010**	**50V 1U**	**1**	
C7405	**ECJ1VB0J105K**	**6.3V 1U**	**1**	
C7406	**ECJ1VF1H103Z**	**50V 0.01U**	**1**	
C7408	**ECJ2YB1A105K**	**10V 1U**	**1**	
C7421	**ECEA0JKS470**	**6.3V 47U**	**1**	
C7422	**ECJ1VF1H103Z**	**50V 0.01U**	**1**	
C7423	**ECJ1VF1H103Z**	**50V 0.01U**	**1**	
C7501	**ECJ1VF1H103Z**	**50V 0.01U**	**1**	
C7502	**ECJ1VF1H103Z**	**50V 0.01U**	**1**	
C7503	**ECJ1VF1H103Z**	**50V 0.01U**	**1**	
C7505	**ECA0JM471G**	**6.3V 470U**	**1**	
C7508	**ECJ1VF1C104Z**	**16V 0.1U**	**1**	
C7509	**ECJ1VF1C104Z**	**16V 0.1U**	**1**	
C7510	**ECJ1VC1H180J**	**50V 18P**	**1**	
C7511	**ECJ1VC1H180J**	**50V 18P**	**1**	
C7512	**ECJ1XC1H220J**	**50V 22P**	**1**	
C7513	**ECJ1VC1H150J**	**50V 15P**	**1**	
C7514	**ECJ1VF1C104Z**	**16V 0.1U**	**1**	
C7515	**ECJ1VF1A105Z**	**10V 1U**	**1**	
C7520	**ECJ1VB0J105K**	**6.3V 1U**	**1**	
D1501	**B3EA00000072**	**LED**	**1**	
D2001	**B0AACK000004**	**DIODE**	**1**	
D2002	**B0AACK000004**	**DIODE**	**1**	
D2502	**MAZ4160NMF**	**DIODE**	**1**	
D3001	**B0AACK000004**	**DIODE**	**1**	
D4501	**B0AACK000004**	**DIODE**	**1**	
D4502	**MAZ4056NHF**	**DIODE**	**1**	
D7401	**B0BA03000015**	**DIODE**	**1**	
D7502	**B0AACK000004**	**DIODE**	**1**	
D7503	**B0AACK000004**	**DIODE**	**1**	
D7504	**MA2C70000F**	**DIODE**	**1**	**MA2C700A0F**
D7505	**B0AACK000004**	**DIODE**	**1**	
D7506	**B0AACK000004**	**DIODE**	**1**	
D7507	**MA4180NMTA**	**DIODE**	**1**	**MAZ4180NMF**
DP7501	**A2BD00000156**	**DISPLAY TUBE**	**1**	
FL7301	**J0B4504AA026**	**FILTER**	**1**	
IC1511	**B3NAA0000118**	**IC**	**1**	
IC1512	**B3NAA0000118**	**IC**	**1**	
IC2001	**C0CBCDC00020**	**IC**	**1**	
IC2501	**C1AB00001767**	**IC**	**1**	
IC3001	**C1AB00002083**	**IC**	**1**	
IC3002	**C0CBCDG00006**	**IC**	**1**	
IC3701	**C1AB00002490**	**IC**	**1**	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC3702	C1AB00001486	IC	1	
IC3703	C1AB00001340	IC	1	
IC3705	C1AB00001682	IC	1	
IC3707	C1AB00001682	IC	1	
IC4501	AN3656NFBPBV	IC	1	
IC4801	C0CBCDC00027	IC	1	
IC4802	C0JBAR000438	IC	1	
IC6001	C2CBHF000465	IC	1	
IC6002	C0EBH0000172	IC	1	
IC6301	C0CBCDC00020	IC	1	
IC7301	AN5832SA-E1V	IC	1	
IC7402	C0CBCDD00006	IC	1	
IC7501	MN67788RD	IC	1	
IP6001	ERJ3GEY0R00	1/10W 0	1	⚠
J1	VEE0U97	EARTH WIRE	1	
JK3902	K1U714B00002	JACK,S1/S2	1	
JK3903	K1U821B00002	JACK,L1 L3	1	
JK4801	K1U407B00004	JACK,D1/D2	1	
K2597	ERJ3GEY0R00	1/10W 0	1	⚠
K3004	ERJ3GEY0R00	1/10W 0	1	⚠
K3008	ERJ3GEY0R00	1/10W 0	1	⚠
K3010	ERJ3GEY0R00	1/10W 0	1	⚠
K3016	ERJ3GEY0R00	1/10W 0	1	⚠
K3022	ERJ3GEY0R00	1/10W 0	1	⚠
K3031	ERJ3GEY0R00	1/10W 0	1	⚠
K3703	ERJ3GEY0R00	1/10W 0	1	⚠
K3707	ERJ3GEY0R00	1/10W 0	1	⚠
K3904	ERJ6GEY0R00V	1/8W 0	1	
K4081	ERJ3GEY0R00	1/10W 0	1	⚠
K4506	ERJ3GEY0R00	1/10W 0	1	⚠
K4801	ERJ3GEY0R00	1/10W 0	1	⚠
K4802	ERJ3GEY0R00	1/10W 0	1	⚠
K7411	ERJ3GEY0R00	1/10W 0	1	⚠
K7502	ERJ3GEY0R00	1/10W 0	1	⚠
K7503	ERJ3GEY0R00	1/10W 0	1	⚠
L3002	VLQ0599J271	COIL 270UH	1	G0C271JA0026
L3003	VLQ0599J270T	COIL 27UH	1	G0C270JA0019
L3004	VLQ0599J680	COIL 68UH	1	G0C680JA0026
L3005	VLQ0599J270T	COIL 27UH	1	G0C270JA0019
L3006	G1C120JA0036	COIL 12UH	1	
L3701	G0C220JA0019	COIL 22UH	1	
L3702	G0C220JA0019	COIL 22UH	1	
L3703	G0C220JA0019	COIL 22UH	1	
L3704	G0C220JA0019	COIL 22UH	1	
L4081	G0C221KA0065	COIL 220UH	1	
L4501	G0C1R2J00004	COIL 1.2UH	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L4502	VLQ0599J391T	COIL 390UH	1	G0C391JA0019
L4503	G0C101JA0019	COIL 100UH	1	
L5001	VLQ0599J680	COIL 68UH	1	G0C680JA0026
L6102	VLQ0599J1R5	COIL 1.5UH	1	G0C1R5JA0026
L7402	G0A100HA0023	COIL 10UH	1	
LB3101	J0JCC0000103	COIL	1	
LB3102	J0JCC0000103	COIL	1	
LB3103	J0JCC0000103	COIL	1	
LB3104	J0JCC0000103	COIL	1	
LB3105	J0JCC0000103	COIL	1	
LB3106	J0JCC0000103	COIL	1	
LB3107	J0JCC0000103	COIL	1	
LB3108	J0JCC0000103	COIL	1	
LB3109	J0JCC0000103	COIL	1	
LB3110	J0JCC0000103	COIL	1	
LB3111	J0JCC0000103	COIL	1	
LB3112	J0JCC0000103	COIL	1	
LB3113	J0JCC0000103	COIL	1	
LB4101	J0JCC0000103	COIL	1	
LB4102	J0JCC0000103	COIL	1	
LB4103	J0JCC0000103	COIL	1	
LB4104	J0JCC0000103	COIL	1	
LB4105	J0JCC0000103	COIL	1	
LB4106	J0JCC0000103	COIL	1	
LB4107	J0JCC0000103	COIL	1	
LB4108	J0JCC0000103	COIL	1	
LB7403	ERJ3GEY0R00	1/10W 0	1	⚠
LB7407	ERJ3GEY0R00	1/10W 0	1	⚠
LB7413	ERJ3GEY0R00	1/10W 0	1	⚠
P1531	K1KA02A00375	CONNECTOR(2P)	1	
P2501	VJS3537E007G	CONNECTOR(7P)	1	K1MN07A00019
P2571	K1KA08A00355	CONNECTOR(8P)	1	
P3001	VJS3537A009G	CONNECTOR(FEMALE) 9P	1	K1MN09A00012
P4001	VJS3837A002	CONNECTOR(2P)	1	K1KB02A00035
P4002	VJS3537A006G	CONNECTOR(FEMALE) 6P	1	K1MN06A00034
P6001	K1KB19AA0033	CONNECTOR(19P)	1	
P6002	K1KB19AA0033	CONNECTOR(19P)	1	
P6003	K1KB19AA0033	CONNECTOR(19P)	1	
P6004	K1KB15AA0032	CONNECTOR(15P)	1	
P6005	K1KB11AA0032	CONNECTOR(11P)	1	
PS6001	K1KB10B00053	CONNECTOR(10P)	1	
Q1501	PNB2303M01VT	TRANSISTOR	1	
Q1502	PNB2303M01VT	TRANSISTOR	1	
Q3001	2SD1819AWL	TRANSISTOR	1	
Q3004	2SD1819AWL	TRANSISTOR	1	
Q4001	2SD114900L	TRANSISTOR	1	
Q4002	2SD1819AWL	TRANSISTOR	1	
Q4082	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q4084	2SB710AQRSTX	TRANSISTOR	1	2SB0710AWL

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q4501	2SB710AQRSTX	TRANSISTOR	1	2SB0710AWL
Q4502	B1AAGD000016	TRANSISTOR	1	
Q7401	2SB1218A	TRANSISTOR	1	
Q7402	2SD1819AWL	TRANSISTOR	1	
Q7501	2SD132800L	TRANSISTOR	1	
Q7502	2SD1819AWL	TRANSISTOR	1	
QR3701	UN5212TX	TRANSISTOR	1	UNR521200L
QR4001	UNR511100L	TRANSISTOR	1	
QR4082	UN5213TX	TRANSISTOR	1	UNR521300L
QR4501	UN5211	TRANSISTOR	1	UNR5211
QR4801	XN1211	TRANSISTOR	1	XN01211
QR4802	XN0121600L	TRANSISTOR	1	
QR4803	XN1211	TRANSISTOR	1	XN01211
QR4804	UNR511100L	TRANSISTOR	1	
QR4805	XN0121600L	TRANSISTOR	1	
QR4806	XN0121600L	TRANSISTOR	1	
QR4807	UN5113TW	TRANSISTOR	1	
QR4808	XN0121600L	TRANSISTOR	1	
QR4809	UN5113TW	TRANSISTOR	1	
QR4810	UN5213TX	TRANSISTOR	1	UNR521300L
QR4813	UNR511100L	TRANSISTOR	1	
QR4814	XN0121600L	TRANSISTOR	1	
QR7401	UN5112	TRANSISTOR	1	UNR5112
QR7502	UNR511100L	TRANSISTOR	1	
R1501	ERJ3GEYJ273	1/10W 27K	1	
R1502	ERJ3GEYJ273	1/10W 27K	1	
R1503	ERDS2FJ151	1/4W 150	1	
R1511	ERJ3GEYJ273	1/10W 27K	1	
R1512	ERJ3GEYJ273	1/10W 27K	1	
R1513	ERJ6GEYJ121V	1/8W 120	1	D0GD121JA003
R2001	ERJ3GEYJ392	1/10W 3.9K	1	
R2002	D0GB105JA057	1/10W 27K	1	
R2099	ERJ3GEYJ682	1/10W 6.8K	1	
R2501	ERJ6GEYJ1R2	1/8W 1.2	1	
R2502	ERJ6GEYJ1R5V	1/8W 1.5	1	
R2503	ERDS2FJ822	1/4W 8.2K	1	
R2514	ERJ3GEYJ221	1/10W 220	1	
R2515	ERJ3GEYJ221	1/10W 220	1	
R2516	ERJ3GEYJ221	1/10W 220	1	
R2520	D0GB183JA057	1/10W 18K	1	
R2521	D0GB102JA057	1/10W 1K	1	
R2551	D0GB103JA057	1/10W 10K	1	
R2552	D0GB103JA057	1/10W 10K	1	
R2561	D0GB102JA057	1/10W 1K	1	
R2562	D0GB473JA057	1/10W 47K	1	
R2563	D0GB102JA057	1/10W 1K	1	
R2564	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R2565	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R3001	D0GB152JA057	1/10W 1.5K	1	
R3002	ERJ3EKF6201	1/10W 6.2K	1	
R3005	ERJ3GEYJ272	1/10W 2.7K	1	
R3006	D0GB102JA057	1/10W 1K	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3009	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R3010	ERJ3GEYJ682	1/10W 6.8K	1	
R3013	D0GB103JA057	1/10W 10K	1	
R3014	D0GB102JA057	1/10W 1K	1	
R3017	D0GB102JA057	1/10W 1K	1	
R3021	ERJ3GEYJ222	1/10W 2.2K	1	
R3022	ERJ3GEYJ332	1/10W 3.3K	1	
R3023	D0GB152JA057	1/10W 1.5K	1	
R3030	ERJ3GEYJ685V	1/10W 6.8M	1	
R3031	ERJ3GEYJ331	1/10W 330	1	
R3032	ERJ3GEYJ392	1/10W 3.9K	1	
R3035	ERJ3GEYJ222	1/10W 2.2K	1	
R3037	D0GB473JA057	1/10W 47K	1	
R3701	D0GB105JA057	1/10W 27K	1	
R3702	D0GB105JA057	1/10W 27K	1	
R3703	ERJ3GEYJ221	1/10W 220	1	
R3704	ERJ3GEYJ221	1/10W 220	1	
R3705	D0GB105JA057	1/10W 27K	1	
R3706	D0GB103JA057	1/10W 10K	1	
R3707	D0GB103JA057	1/10W 10K	1	
R3708	ERJ3GEYJ563	1/10W 56K	1	
R3709	ERJ3GEYJ752	1/10W 7.5K	1	
R3711	D0GB103JA057	1/10W 10K	1	
R3712	D0GB103JA057	1/10W 10K	1	
R3713	D0GB103JA057	1/10W 10K	1	
R3714	ERJ3GEYJ222	1/10W 2.2K	1	
R3907	ERJ3EKF75R0	1/10W 75	1	
R3908	ERJ3EKF75R0	1/10W 75	1	
R3909	ERJ3EKF75R0	1/10W 75	1	
R3910	D0GB103JA057	1/10W 10K	1	
R3912	ERJ3EKF75R0	1/10W 75	1	
R3913	ERJ3EKF75R0	1/10W 75	1	
R3914	ERJ3EKF75R0	1/10W 75	1	
R3915	ERJ3EKF75R0	1/10W 75	1	
R3924	ERJ3EKF75R0	1/10W 75	1	
R3925	ERJ3EKF75R0	1/10W 75	1	
R3926	D0GB102JA057	1/10W 1K	1	
R3927	D0GB102JA057	1/10W 1K	1	
R3928	ERJ3EKF75R0	1/10W 75	1	
R3929	ERJ3EKF75R0	1/10W 75	1	
R3930	ERJ3EKF75R0	1/10W 75	1	
R3931	ERJ3EKF75R0	1/10W 75	1	
R4001	D0GB102JA057	1/10W 1K	1	
R4003	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R4004	ERJ3GEYJ271	1/10W 270	1	
R4005	D0GB102JA057	1/10W 1K	1	
R4006	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R4007	D0GB103JA057	1/10W 10K	1	
R4008	ERJ3GEYJ334	1/10W 330K	1	D0GB334JA002
R4011	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R4012	ERJ3GEYJ223	1/10W 22K	1	
R4081	D0GB103JA057	1/10W 10K	1	
R4082	ERJ3GEYJ332	1/10W 3.3K	1	
R4083	ERJ3GEY0R00	1/10W 0	1	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4086	ERJ3GEYJ222	1/10W 2.2K	1	
R4087	ERJ3GEYJ222	1/10W 2.2K	1	
R4500	D0GB102JA057	1/10W 1K	1	
R4501	ERJ3GEYJ563	1/10W 56K	1	
R4502	D0GB473JA057	1/10W 47K	1	
R4503	D0GB473JA057	1/10W 47K	1	
R4504	ERDS2FJ821	1/4W 820	1	
R4505	ERJ3EKF6201	1/10W 6.2K	1	
R4506	ERJ3EKF6201	1/10W 6.2K	1	
R4507	ERJ3GEYJ472	1/10W 4.7K	1	
R4508	ERJ3GEYJ472	1/10W 4.7K	1	
R4509	D0GB473JA057	1/10W 47K	1	
R4510	ERJ3EKF6201	1/10W 6.2K	1	
R4511	D0GB473JA057	1/10W 47K	1	
R4512	ERJ3EKF6201	1/10W 6.2K	1	
R4513	ERJ3GEYJ472	1/10W 4.7K	1	
R4515	ERJ3GEYJ563	1/10W 56K	1	
R4516	D0GB473JA057	1/10W 47K	1	
R4517	ERJ3EKF6201	1/10W 6.2K	1	
R4518	D0GB753JA057	1/10W 75K	1	
R4519	D0GB753JA057	1/10W 75K	1	
R4520	ERJ3GEYJ472	1/10W 4.7K	1	
R4521	ERJ3GEYJ511	1/10W 510	1	
R4522	ERJ3GEYJ511	1/10W 510	1	
R4523	D0GB473JA057	1/10W 47K	1	
R4524	ERJ3EKF6201	1/10W 6.2K	1	
R4525	D0GB102JA057	1/10W 1K	1	
R4526	D0GB243JA057	1/10W 24K	1	
R4527	ERJ3GEYJ682	1/10W 6.8K	1	
R4529	ERJ3GEYJ681	1/10W 680	1	
R4534	D0GB124JA057	1/10W 120K	1	
R4538	D0GB393JA041	1/10W 390K	1	
R4539	D0GB102JA057	1/10W 1K	1	
R4540	D0GB102JA057	1/10W 1K	1	
R4553	D0GB103JA057	1/10W 10K	1	
R4557	D0GB103JA057	1/10W 10K	1	
R4801	ERJ3GEYJ681	1/10W 680	1	
R4802	ERJ3GEYJ681	1/10W 680	1	
R4803	ERJ3GEYJ681	1/10W 680	1	
R4804	ERJ3GEYJ681	1/10W 680	1	
R4805	ERJ3GEYJ222	1/10W 2.2K	1	
R4806	ERJ3GEYJ471	1/10W 470	1	
R4807	ERJ3GEYJ471	1/10W 470	1	
R4808	D0GB243JA057	1/10W 24K	1	
R4809	D0GB243JA057	1/10W 24K	1	
R4810	D0GB243JA057	1/10W 24K	1	
R4811	D0GB243JA057	1/10W 24K	1	
R4812	D0GB243JA057	1/10W 24K	1	
R4813	D0GB243JA057	1/10W 24K	1	
R4814	D0GB243JA057	1/10W 24K	1	
R4815	D0GB102JA057	1/10W 1K	1	
R4816	D0GB102JA057	1/10W 1K	1	
R4817	D0GB243JA057	1/10W 24K	1	
R4818	D0GB243JA057	1/10W 24K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4819	D0GB243JA057	1/10W 24K	1	
R4820	D0GB243JA057	1/10W 24K	1	
R4821	ERJ3GEYJ224	1/10W 220K	1	
R4822	ERJ3GEYJ104	1/10W 100K	1	
R4823	ERJ3GEYJ104	1/10W 100K	1	
R4824	D0GB102JA057	1/10W 1K	1	
R4826	D0GB473JA057	1/10W 47K	1	
R4827	D0GB473JA057	1/10W 47K	1	
R4828	D0GB102JA057	1/10W 1K	1	
R4830	ERJ3GEYJ104	1/10W 100K	1	
R4831	ERJ3GEYJ224	1/10W 220K	1	
R4832	ERJ3GEYJ104	1/10W 100K	1	
R4833	D0GB243JA057	1/10W 24K	1	
R4834	JAR0816P392D	1/16W 3900	1	D0HB392ZA002
R4835	JAR0816P392D	1/16W 3900	1	D0HB392ZA002
R4836	JAR0816P392D	1/16W 3900	1	D0HB392ZA002
R4837	JAR0816P392D	1/16W 3900	1	D0HB392ZA002
R4838	JAR0816P392D	1/16W 3900	1	D0HB392ZA002
R4839	D0GB102JA057	1/10W 1K	1	
R4840	D0GB102JA057	1/10W 1K	1	
R4841	D0GB473JA057	1/10W 47K	1	
R4842	D0GB473JA057	1/10W 47K	1	
R4843	JAR0816P392D	1/16W 3900	1	D0HB392ZA002
R4844	JAR0816P392D	1/16W 3900	1	D0HB392ZA002
R4845	JAR0816P392D	1/16W 3900	1	D0HB392ZA002
R4848	ERJ3GEYJ333	1/10W 33K	1	
R4852	ERJ3GEYJ333	1/10W 33K	1	
R4855	ERJ3GEYJ303	1/10W 30K	1	
R4856	ERJ3GEYJ303	1/10W 30K	1	
R4858	ERJ3GEYJ221	1/10W 220	1	
R4859	ERJ3GEYJ471	1/10W 470	1	
R4860	ERJ3GEYJ221	1/10W 220	1	
R4861	ERJ3GEYJ471	1/10W 470	1	
R4862	ERJ3GEYJ104	1/10W 100K	1	
R4863	ERJ3GEYJ104	1/10W 100K	1	
R4864	JAR0816P202D	1/16W 2K	1	D0HB202ZA002
R4865	JAR0816P202D	1/16W 2K	1	D0HB202ZA002
R4866	JAR0816P123D	1/16W 12K	1	D0HB123ZA002
R4867	JAR0816P123D	1/16W 12K	1	D0HB123ZA002
R4868	D0GB103JA057	1/10W 10K	1	
R4869	D0GB103JA057	1/10W 10K	1	
R6001	D0GB102JA057	1/10W 1K	1	
R6002	D0GB102JA057	1/10W 1K	1	
R6004	D0GB103JA057	1/10W 10K	1	
R6006	D0GB183JA057	1/10W 18K	1	
R6008	ERJ3GEYJ222	1/10W 2.2K	1	
R6009	D0GB103JA057	1/10W 10K	1	
R6010	D0GB103JA057	1/10W 10K	1	
R6012	ERJ3GEYJ221	1/10W 220	1	
R6013	ERJ3GEYJ221	1/10W 220	1	
R6017	ERJ3GEYJ222	1/10W 2.2K	1	
R6019	D0GB103JA057	1/10W 10K	1	
R6020	ERJ3GEYJ221	1/10W 220	1	
R6022	ERJ3GEYJ221	1/10W 220	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6023	ERJ3GEYJ221	1/10W 220	1	
R6024	ERJ3GEYJ221	1/10W 220	1	
R6026	D0GB103JA057	1/10W 10K	1	
R6027	D0GB103JA057	1/10W 10K	1	
R6028	D0GB103JA057	1/10W 10K	1	
R6029	ERJ3GEYJ221	1/10W 220	1	
R6101	D0GB105JA057	1/10W 27K	1	
R6102	ERJ3GEYJ471	1/10W 470	1	
R6103	D0GB181JA057	1/10W 180	1	
R6201	ERJ3GEYJ332	1/10W 3.3K	1	
R6803	ERJ3GEYJ474	1/10W 470K	1	
R7301	D0GB103JA057	1/10W 10K	1	
R7302	ERJ3GEY0R00	1/10W 0	1	⚠
R7303	ERJ3GEYJ332	1/10W 3.3K	1	
R7304	ERJ3GEY0R00	1/10W 0	1	⚠
R7305	ERJ6GEYJ331V	1/8W 330	1	
R7306	ERJ6GEYJ331V	1/8W 330	1	
R7307	D0GB184JA057	1/10W 180K	1	
R7308	ERJ3GEYJ331	1/10W 330	1	
R7309	ERJ3GEYJ331	1/10W 330	1	
R7310	ERJ3GEY0R00	1/10W 0	1	⚠
R7311	D0GB102JA057	1/10W 1K	1	
R7401	ERDS2FJ102	1/4W 1K	1	
R7402	ERJ3GEYJ104	1/10W 100K	1	
R7410	ERJ6GEY0R00V	1/8W 0	1	
R7411	ERJ6GEY0R00V	1/8W 0	1	
R7415	ERJ3GEYJ681	1/10W 680	1	
R7501	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7502	ERJ3GEYJ104	1/10W 100K	1	
R7503	D0GB473JA057	1/10W 47K	1	
R7504	ERJ3GEY0R00	1/10W 0	1	⚠
R7505	ERJ3GEY0R00	1/10W 0	1	⚠
R7509	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7510	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7511	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7512	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7513	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7514	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7515	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7516	ERJ3GEYJ472	1/10W 4.7K	1	
R7517	ERJ3GEYD274V	1/10W 270K	1	ERA3YKD274V
R7518	ERJ3GEYJ822	1/10W 8.2K	1	
R7519	ERJ3GEYJ822	1/10W 8.2K	1	
R7520	ERJ3GEYJ822	1/10W 8.2K	1	
R7521	D0GB102JA057	1/10W 1K	1	
R7522	D0GB103JA057	1/10W 10K	1	
R7523	ERJ3GEYJ221	1/10W 220	1	
R7525	ERJ3GEY0R00	1/10W 0	1	⚠
R7528	D0GB473JA057	1/10W 47K	1	
R7529	D0GB103JA057	1/10W 10K	1	
R7534	D0GB103JA057	1/10W 10K	1	
R7535	D0GB103JA057	1/10W 10K	1	
R7537	D0GB103JA057	1/10W 10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7538	D0GB473JA057	1/10W 47K	1	
R7539	ERJ3GEY0R00	1/10W 0	1	⚠
R7540	D0GB473JA057	1/10W 47K	1	
R7541	ERDS2FJ221	1/4W 220	1	
R7542	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7543	D0GB103JA057	1/10W 10K	1	
R7544	D0GB103JA057	1/10W 10K	1	
R7546	D0GB473JA057	1/10W 47K	1	
R7548	D0GB473JA057	1/10W 47K	1	
R37017	ERJ3GEYJ223	1/10W 22K	1	
S1531	K0C111A00006	SWITCH,SAFETY TAB	1	
S1532	K0ZZ00000598	SWITCH,MODE	1	
T4081	G2A472C00003	TRANSFORMER	1	⚠
TU7401	ENGF6503GRF	TUNER PACK	1	⚠
W701	ERJ3GEY0R00	1/10W 0	1	⚠
W702	ERJ3GEY0R00	1/10W 0	1	⚠
W703	ERJ3GEY0R00	1/10W 0	1	⚠
W704	ERJ6GEY0R00V	1/8W 0	1	
W705	ERJ6GEY0R00V	1/8W 0	1	
W706	ERJ6GEY0R00V	1/8W 0	1	
W707	ERJ8GEY0R00	1/4W 0	1	
W708	ERJ8GEY0R00	1/4W 0	1	
W709	ERJ8GEY0R00	1/4W 0	1	
W710	ERJ8GEY0R00	1/4W 0	1	
W711	ERJ3GEY0R00	1/10W 0	1	⚠
W712	ERJ8GEY0R00	1/4W 0	1	
W713	ERJ8GEY0R00	1/4W 0	1	
W714	ERJ8GEY0R00	1/4W 0	1	
W715	ERJ6GEY0R00V	1/8W 0	1	
W716	ERJ8GEY0R00	1/4W 0	1	
W717	ERJ8GEY0R00	1/4W 0	1	
W718	ERJ8GEY0R00	1/4W 0	1	
W719	ERJ8GEY0R00	1/4W 0	1	
W720	ERJ8GEY0R00	1/4W 0	1	
W721	ERJ8GEY0R00	1/4W 0	1	
W722	ERJ6GEY0R00V	1/8W 0	1	
W723	ERJ8GEY0R00	1/4W 0	1	
W724	ERJ8GEY0R00	1/4W 0	1	
W725	ERJ6GEY0R00V	1/8W 0	1	
W726	ERJ8GEY0R00	1/4W 0	1	
W727	ERJ8GEY0R00	1/4W 0	1	
W728	ERJ8GEY0R00	1/4W 0	1	
W729	ERJ6GEY0R00V	1/8W 0	1	
W730	ERJ8GEY0R00	1/4W 0	1	
W731	ERJ8GEY0R00	1/4W 0	1	
W732	ERJ8GEY0R00	1/4W 0	1	
W733	ERJ8GEY0R00	1/4W 0	1	
W734	ERJ3GEY0R00	1/10W 0	1	⚠
W735	ERJ8GEY0R00	1/4W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
W736	ERJ8GEY0R00	1/4W 0	1	
W737	ERJ8GEY0R00	1/4W 0	1	
W738	ERJ8GEY0R00	1/4W 0	1	
W739	ERJ8GEY0R00	1/4W 0	1	
W740	ERJ8GEY0R00	1/4W 0	1	
W741	ERJ6GEY0R00V	1/8W 0	1	
W742	ERJ8GEY0R00	1/4W 0	1	
W743	ERJ8GEY0R00	1/4W 0	1	
W744	ERJ8GEY0R00	1/4W 0	1	
W745	ERJ6GEY0R00V	1/8W 0	1	
W746	ERJ6GEY0R00V	1/8W 0	1	
W747	ERJ3GEY0R00	1/10W 0	1	⚠
W748	ERJ6GEY0R00V	1/8W 0	1	
W749	ERJ6GEY0R00V	1/8W 0	1	
W750	ERJ6GEY0R00V	1/8W 0	1	
W752	ERJ3GEY0R00	1/10W 0	1	⚠
W753	ERJ6GEY0R00V	1/8W 0	1	
W754	ERJ6GEY0R00V	1/8W 0	1	
W755	ERJ6GEY0R00V	1/8W 0	1	
W756	ERJ3GEY0R00	1/10W 0	1	⚠
W757	ERJ3GEY0R00	1/10W 0	1	⚠
W758	ERJ6GEY0R00V	1/8W 0	1	
W759	ERJ6GEY0R00V	1/8W 0	1	
W760	ERJ6GEY0R00V	1/8W 0	1	
W761	ERJ6GEY0R00V	1/8W 0	1	
W762	ERJ3GEY0R00	1/10W 0	1	⚠
W763	ERJ3GEY0R00	1/10W 0	1	⚠
W764	ERJ3GEY0R00	1/10W 0	1	⚠
W765	ERJ3GEY0R00	1/10W 0	1	⚠
W766	ERJ3GEY0R00	1/10W 0	1	⚠
W767	ERJ8GEY0R00	1/4W 0	1	
W768	ERJ8GEY0R00	1/4W 0	1	
W771	ERJ6GEY0R00V	1/8W 0	1	
W772	ERJ8GEY0R00	1/4W 0	1	
W773	ERJ8GEY0R00	1/4W 0	1	
W774	ERJ8GEY0R00	1/4W 0	1	
W775	ERJ8GEY0R00	1/4W 0	1	
W776	ERJ6GEY0R00V	1/8W 0	1	
W777	ERJ8GEY0R00	1/4W 0	1	
W778	ERJ3GEY0R00	1/10W 0	1	⚠
W779	ERJ6GEY0R00V	1/8W 0	1	
W780	ERJ8GEY0R00	1/4W 0	1	
W781	ERJ3GEY0R00	1/10W 0	1	⚠
W782	ERJ3GEY0R00	1/10W 0	1	⚠
W783	ERJ6GEY0R00V	1/8W 0	1	
W784	ERJ6GEY0R00V	1/8W 0	1	
W785	ERJ3GEY0R00	1/10W 0	1	⚠
W786	ERJ6GEY0R00V	1/8W 0	1	
W787	ERJ3GEY0R00	1/10W 0	1	⚠
W788	ERJ6GEY0R00V	1/8W 0	1	
W789	ERJ6GEY0R00V	1/8W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
W790	ERJ3GEY0R00	1/10W 0	1	⚠
W791	ERJ3GEY0R00	1/10W 0	1	⚠
W792	ERJ3GEY0R00	1/10W 0	1	⚠
W793	ERJ3GEY0R00	1/10W 0	1	⚠
W794	ERJ3GEY0R00	1/10W 0	1	⚠
W795	ERJ3GEY0R00	1/10W 0	1	⚠
W796	ERJ6GEY0R00V	1/8W 0	1	
W797	ERJ3GEY0R00	1/10W 0	1	⚠
W798	ERJ6GEY0R00V	1/8W 0	1	
W799	ERJ3GEY0R00	1/10W 0	1	⚠
W800	ERJ3GEY0R00	1/10W 0	1	⚠
W801	ERJ3GEY0R00	1/10W 0	1	⚠
W802	ERJ6GEY0R00V	1/8W 0	1	
W803	ERJ6GEY0R00V	1/8W 0	1	
W804	ERJ3GEY0R00	1/10W 0	1	⚠
W805	ERJ6GEY0R00V	1/8W 0	1	
W806	ERJ3GEY0R00	1/10W 0	1	⚠
W807	ERJ6GEY0R00V	1/8W 0	1	
W808	ERJ3GEY0R00	1/10W 0	1	⚠
W809	ERJ6GEY0R00V	1/8W 0	1	
W810	ERJ3GEY0R00	1/10W 0	1	⚠
W811	ERJ6GEY0R00V	1/8W 0	1	
W812	ERJ6GEY0R00V	1/8W 0	1	
W813	ERJ3GEY0R00	1/10W 0	1	⚠
W814	ERJ3GEY0R00	1/10W 0	1	⚠
W815	ERJ6GEY0R00V	1/8W 0	1	
W816	ERJ3GEY0R00	1/10W 0	1	⚠
W817	ERJ3GEY0R00	1/10W 0	1	⚠
W818	ERJ3GEY0R00	1/10W 0	1	⚠
W819	ERJ3GEY0R00	1/10W 0	1	⚠
W820	ERJ3GEY0R00	1/10W 0	1	⚠
W821	ERJ3GEY0R00	1/10W 0	1	⚠
W822	ERJ3GEY0R00	1/10W 0	1	⚠
W823	ERJ6GEY0R00V	1/8W 0	1	
W824	ERJ3GEY0R00	1/10W 0	1	⚠
W825	ERJ3GEY0R00	1/10W 0	1	⚠
W826	ERJ6GEY0R00V	1/8W 0	1	
W827	ERJ3GEY0R00	1/10W 0	1	⚠
W828	ERJ6GEY0R00V	1/8W 0	1	
W829	ERJ6GEY0R00V	1/8W 0	1	
W830	ERJ6GEY0R00V	1/8W 0	1	
W831	ERJ6GEY0R00V	1/8W 0	1	
W832	ERJ3GEY0R00	1/10W 0	1	⚠
W833	ERJ6GEY0R00V	1/8W 0	1	
W834	ERJ3GEY0R00	1/10W 0	1	⚠
W835	ERJ3GEY0R00	1/10W 0	1	⚠
W836	ERJ6GEY0R00V	1/8W 0	1	
W837	ERJ3GEY0R00	1/10W 0	1	⚠
W840	ERJ3GEY0R00	1/10W 0	1	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
W842	ERJ3GEY0R00	1/10W 0	1	⚠
W843	ERJ3GEY0R00	1/10W 0	1	⚠
W844	ERJ3GEY0R00	1/10W 0	1	⚠
W845	ERJ3GEY0R00	1/10W 0	1	⚠
W846	ERJ6GEY0R00V	1/8W 0	1	
W847	ERJ3GEY0R00	1/10W 0	1	⚠
W848	ERJ6GEY0R00V	1/8W 0	1	
W849	ERJ6GEY0R00V	1/8W 0	1	
W850	ERJ6GEY0R00V	1/8W 0	1	
W851	ERJ3GEY0R00	1/10W 0	1	⚠
W852	ERJ3GEY0R00	1/10W 0	1	⚠
W853	ERJ3GEY0R00	1/10W 0	1	⚠
W854	ERJ3GEY0R00	1/10W 0	1	⚠
W855	ERJ6GEY0R00V	1/8W 0	1	
W856	ERJ8GEY0R00	1/4W 0	1	
W857	ERJ3GEY0R00	1/10W 0	1	⚠
W858	ERJ3GEY0R00	1/10W 0	1	⚠
W859	ERJ3GEY0R00	1/10W 0	1	⚠
W860	ERJ3GEY0R00	1/10W 0	1	⚠
W861	ERJ3GEY0R00	1/10W 0	1	⚠
W862	ERJ3GEY0R00	1/10W 0	1	⚠
W863	ERJ3GEY0R00	1/10W 0	1	⚠
W864	ERJ6GEY0R00V	1/8W 0	1	
W866	ERJ3GEY0R00	1/10W 0	1	⚠
W867	ERJ3GEY0R00	1/10W 0	1	⚠
W868	ERJ6GEY0R00V	1/8W 0	1	
W869	ERJ6GEY0R00V	1/8W 0	1	
W870	ERJ6GEY0R00V	1/8W 0	1	
W871	ERJ6GEY0R00V	1/8W 0	1	
W872	ERJ3GEY0R00	1/10W 0	1	⚠
W873	ERJ6GEY0R00V	1/8W 0	1	
W874	ERJ3GEY0R00	1/10W 0	1	⚠
W875	ERJ6GEY0R00V	1/8W 0	1	
W876	ERJ6GEY0R00V	1/8W 0	1	
W877	ERJ3GEY0R00	1/10W 0	1	⚠
W878	ERJ6GEY0R00V	1/8W 0	1	
X3002	H0D357400067	OSCILLATOR	1	
X6001	H0D120500009	OSCILLATOR	1	
X7501	H0D100500018	CRYSTAL OSCILLATOR	1	
X7502	H0A327200108	CRYSTAL OSCILLATOR	1	
■	RFKB09143AD	DIGITAL I/F P.C.B.		
C11101	ECQU2A104MLA	0.1U	1	⚠
C11102	F1B2G1010001	100U	1	⚠
C11103	F1B2G1010001	100U	1	⚠
C11104	F1B2G4710001	470U	1	⚠
C11105	F1B2G4710001	470U	1	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C11106	ECQU2A223MLC	0.022U	1	⚠
C11108	F2B2E2210011	250V 220U	1	
C11109	F1B2G1020002	1000P	1	⚠
C11201	F1B3A4720013	4700P	1	
C11204	ECJ2VB1E104K	25V 0.1U	1	
C11205	ECJGVB1H102K	50V 1000P	1	
C11211	ECJGVB1H102K	50V 1000P	1	
C11212	ECJ2XC1H221J	50V 220P	1	ECJ2VC1H221J
C11213	F2A1E1010103	25V 0.01U	1	
C11214	ECJGVB1H222K	50V 2200P	1	
C11307	F1B3A2720001	1KV 2700P	1	
C11308	ECJGVB1H102K	50V 1000P	1	
C11309	ECJ2XC1H331J	16V 330P	1	
C11310	F2A1V6800002	35V 68P	1	
C11311	ECJGVB1H392K	50V 3900P	1	
C11401	F2A1C2220080	2200P	1	⚠
C11403	F2A1C5610004	560P	1	⚠
C11512	ECJ2VB1E104K	25V 0.1U	1	
C11513	ECJ2VB1E473K	25V 0.047U	1	
C11601	F1K1C106A062	16V 10U	1	
C11603	F2A1C1210017	16V 120P	1	
C11604	F2A1C1210017	16V 120P	1	
C11605	ECJ2YB1C105K	16V 1U	1	
C11606	ECJ2VB1E104K	25V 0.1U	1	
C11607	ECJ2VB1E104K	25V 0.1U	1	
C11608	ECJ2XC1H181J	50V 180P	1	
C11610	ECJGVB1H103K	50V 0.01U	1	
C11612	ECJ2VF1H103Z	50V 0.01U	1	
C11613	F2A1C4710079	16V 470P	1	
C11615	F2A1C4710079	16V 470P	1	
C11616	ECJ2FB0J106K	6.3V 10U	1	
C11617	F1K1C106A062	16V 10U	1	
C11618	ECJ2YB1C105K	16V 1U	1	
C11619	ECJ2YB1C105K	16V 1U	1	
C11620	ECJ2YB1C105K	16V 1U	1	
C11621	F2A1A4700041	10V 47P	1	
C11701	F2A1A2220055	2200P	1	⚠
C11703	F2A1C5610004	560P	1	⚠
C11704	F2A1H5600018	50V 56P	1	
C11705	F2A1C1210017	16V 120P	1	
C11706	F2A1H5600018	50V 56P	1	
C11707	F2A1C1210017	16V 120P	1	
C11709	F2A1A6810024	680P	1	⚠
C11711	ECJ2VB1E104K	25V 0.1U	1	
C11712	ECJ2VB1E473K	25V 0.047U	1	
C11720	ECJ2YB1C105K	16V 1U	1	
C11721	ECJ2YB1C105K	16V 1U	1	
C11722	ECJGVB1H103K	50V 0.01U	1	
C11801	F2A1C1210017	16V 120P	1	
C11802	ECJ2YB1C105K	16V 1U	1	
C11803	ECJ2VB1E104K	25V 0.1U	1	
C11804	ECJ2VB1E104K	25V 0.1U	1	
C11805	ECJ2XC1H181J	16V 180P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C11806	ECJGVB1H103K	50V 0.01U	1	
C11807	F2A1A6810024	680P	1	⚠
C31504	ECJ1VB1A105K	10V 1U	1	
C31505	ECJ1VB1A105K	10V 1U	1	
C31506	ECJ1VB1A105K	10V 1U	1	
C31507	ECJ1VB0J105K	6.3V 1U	1	
C31508	ECJ1VB1H103K	50V 0.01U	1	
C33505	ECEA0JKN470	6.3V 47U	1	
C37001	ECEA1CKS220	16V 22U	1	
C37005	ECJ1XC1H101J	50V 100P	1	
C37006	ECJ1XC1H101J	50V 100P	1	
C37010	ECJ1XC1H101J	50V 100P	1	
C37011	ECJ1XB1C104K	16V 0.1U	1	
C37012	ECJ1XB1C104K	16V 0.1U	1	
C37013	ECJ1XB1C104K	16V 0.1U	1	
C37501	ECJ1XB1C104K	16V 0.1U	1	
C38001	ECJ1XB1C104K	16V 0.1U	1	
C38002	ECJ1XC1H220J	50V 22P	1	
C38004	ECJ1XC1H220J	50V 22P	1	
C38005	ECJ1XB1C104K	16V 0.1U	1	
C38007	ECJ1XB1C104K	16V 0.1U	1	
C38008	ECJ1XB1C104K	16V 0.1U	1	
C38009	ECJ1VF1A105Z	10V 1U	1	
C38010	ECJ1XC1H101J	50V 100P	1	
C38011	ECJ1XC1H101J	50V 100P	1	
C45001	ECJ1VF1C104Z	16V 0.1U	1	
C45003	ECQV1H104JL	50V 0.1U	1	
C45004	F2A0J471A247	6.3V 470U	1	
C45007	ECEA1CKN100	16V 10U	1	
C45008	ECEA1CKN100	16V 10U	1	
C45011	ECJ1VB1H102K	50V 1000P	1	
C45012	ECJ1VB1H102K	50V 1000P	1	
C45013	F2A1C470A698	16V 47U	1	
C45014	F2A1C470A698	16V 47U	1	
D11101	B0EBKT000008	DIODE	1	
D11102	ERA22-06	DIODE	1	B0HAGR000001
D11201	MAZ73000BC	DIODE	1	
D11203	MA2J11100L	DIODE	1	
D11205	MA2J11100L	DIODE	1	
D11210	B0AADM000003	DIODE	1	
D11212	B0BC9R000008	DIODE	1	
D11303	MAZ73000BC	DIODE	1	
D11304	MA2J11100L	DIODE	1	
D11305	B0AADM000003	DIODE	1	
D11306	B0BC8R100004	DIODE	1	
D11401	B0JCNG000003	DIODE	1	
D11402	B0JCNG000003	DIODE	1	
D11505	MA2J11100L	DIODE	1	
D11602	B0JCPD000021	DIODE	1	
D11701	B0JCNG000003	DIODE	1	
D11703	B0AADM000003	DIODE	1	
D11704	B0AADM000003	DIODE	1	
D11705	B0JAME000025	DIODE	1	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D11706	B0JAQE000004	DIODE	1	
D11720	B0EAKL000062	DIODE	1	
D11721	B0EAKL000062	DIODE	1	
D11722	B0AACK000004	DIODE	1	
D11801	B0JCPD000021	DIODE	1	
F11101	K5D202BK0005	FUSE	1	⚠
IC11201	C0DACZH00031	IC	1	⚠
IC11301	C0DACZH00030	IC	1	
IC11502	C0DAEMB00003	IC	1	
IC11601	C0DBAZZ00131	IC	1	
IC11602	C0EBJ0000143	IC	1	
IC11701	C0DAEMB00003	IC	1	
IC11720	C0CBCBD00048	IC	1	
IC11801	C0DBAZZ00131	IC	1	
IC31501	C0CBCDC00052	IC	1	
IC31503	C0CBCBD00048	IC	1	
IC37001	C0ABBA000146	IC	1	
IC37501	C3EBFC000053	IC	1	
IC38001	C0EBE0000504	IC	1	
IC38002	C2BBFD000536	IC	1	
IC45001	C0DBAHD00013	IC	1	
IP11702	K5H1022A0011	IC PROTECTOR	1	⚠
IP11703	K5H1022A0011	IC PROTECTOR	1	⚠
JK38001	K2HC104B0013	JACK,G LINK	1	
K31501	ERJ3GEY0R00	1/10W 0	1	⚠
K37701	ERJ6GEY0R00V	1/8W 0	1	
K45003	ERJ3GEY0R00	1/10W 0	1	⚠
K45004	ERJ3GEY0R00	1/10W 0	1	⚠
L11101	G0B832L00001	COIL	1	⚠
L11102	G0B832L00001	COIL	1	⚠
L11401	G0A100H00025	COIL 10UH	1	
L11601	G0A220GA0026	COIL 22UH	1	
L11602	G0A100HA0023	COIL 10UH	1	
L11603	G0A150ZA0041	COIL 15UH	1	⚠
L11604	G0A100HA0023	COIL 10UH	1	
L11701	G0A100HA0023	COIL 10UH	1	
L11703	G0A100HA0023	COIL 10UH	1	
L11704	G0A100HA0023	COIL 10UH	1	
L11801	G0A220ZA0041	COIL 22UH	1	⚠
LB11101	J0JKB0000003	COIL	1	
LB11102	J0JKB0000003	COIL	1	
LB11103	J0JHC0000048	FILTER	1	
LB11201	J0JHC0000048	FILTER	1	
LB11301	J0JHC0000048	FILTER	1	
LB11601	J0JHC0000048	FILTER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB11602	J0JHC0000048	FILTER	1	
LB11603	J0JHC0000048	FILTER	1	
LB11701	J0JHC0000048	FILTER	1	
LB11702	J0JHC0000048	FILTER	1	
LB11703	J0JHC0000048	FILTER	1	
LB11801	J0JHC0000048	FILTER	1	
LB37001	J0JHC0000048	FILTER	1	
LB37002	J0JHC0000048	FILTER	1	
LB37003	J0JHC0000048	FILTER	1	
LB37004	J0JHC0000048	FILTER	1	
LB37005	J0JKB0000032	FILTER	1	
LB37006	ERJ3GEY0R00	1/10W 0	1	⚠
LB37007	ERJ3GEY0R00	1/10W 0	1	⚠
LB37008	ERJ6GEY0R00V	1/8W 0	1	
LB37009	J0JKB0000032	FILTER	1	
LB37010	ERJ6GEY0R00V	1/8W 0	1	
LB37011	J0JKB0000032	FILTER	1	
LB37012	ERJ3GEY0R00	1/10W 0	1	⚠
LB37013	J0JKB0000032	FILTER	1	
LB37014	J0JKB0000032	FILTER	1	
LB38001	J0JHC0000032	COIL	1	
LB45001	J0JCC0000103	COIL	1	
P11101	K2AB2B000010	AC INLET	1	⚠
P11602	K1KA05AA0190	CONNECTOR(5P)	1	
P31901	K1KA11A00124	CONNECTOR(11P)	1	
P31902	K1KA15A00118	CONNECTOR(15P)	1	
P31903	K1KA19A00007	CONNECTOR(19P)	1	
P31904	K1KA19A00007	CONNECTOR(19P)	1	
P31905	K1KA19A00007	CONNECTOR(19P)	1	
P37001	K1KA03AA0301	CONNECTOR(3P)	1	
P37101	K1KA88A00003	CONNECTOR(88P)	1	⚠
PS31901	K1KB06B00033	CONNECTOR(FEMALE) 6P	1	
PS31902	K1KB10B00053	CONNECTOR(10P)	1	
Q11101	B3PBA0000402	PHOTO COUPLER	1	⚠
Q11301	B3PBA0000402	PHOTO COUPLER	1	⚠
Q11601	B1DHED000008	TRANSISTOR	1	
Q11602	B1DHDD000022	TRANSISTOR	1	
Q11603	B1DHED000008	TRANSISTOR	1	
Q11801	B1DHDD000022	TRANSISTOR	1	
Q37001	2SD0874A0L	TRANSISTOR	1	
Q37501	B1CFHC000003	TRANSISTOR	1	
Q37502	B1CFHC000003	TRANSISTOR	1	
Q37503	2SD1819AWL	TRANSISTOR	1	
Q37505	2SD1819AWL	TRANSISTOR	1	
Q37506	2SD1819AWL	TRANSISTOR	1	
Q37507	B1CFHC000003	TRANSISTOR	1	
Q38001	2SD132800L	TRANSISTOR	1	
Q38002	2SB710AQRSTX	TRANSISTOR	1	2SB0710AWL
Q38003	2SD0601ARL	TRANSISTOR	1	
Q38004	2SD0601ARL	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q38005	2SD0601ARL	TRANSISTOR	1	
QR11601	UN5213TX	TRANSISTOR	1	UNR521300L
QR11602	UN5213TX	TRANSISTOR	1	UNR521300L
QR11603	UN5213TX	TRANSISTOR	1	UNR521300L
QR11604	UN5213TX	TRANSISTOR	1	UNR521300L
R11101	ERDS1TJ474	1W 470K	1	⚠
R11201	ERJ6GEYF473	1/8W 47K	1	
R11202	ERJ6GEYJ103V	1/8W 10K	1	
R11203	ERJ6GEYG133	1/8W 13K	1	
R11204	ERJ6RBD152	1/8W 1.5K	1	
R11208	ERJ6GEYJ100V	1/8W 10	1	
R11219	ERJ6GEYJ100V	1/8W 10	1	
R11220	ERJ6GEYJ912V	1/8W 9.1K	1	
R11222	ERJ6GEYG361	1/8W 360	1	
R11223	ERJ6ENF6801	1/8W 6.8	1	
R11307	ERJ6GEYJ103V	1/8W 10K	1	
R11308	ERJ6ENF2002	1/8W 20K	1	
R11309	ERJ6GEYG102	1/8W 1K	1	
R11321	ERJ6GEYJ100V	1/8W 10	1	
R11322	ERJ6GEYJ100V	1/8W 10	1	
R11323	ERJ6GEYJ123V	1/8W 12K	1	
R11324	ERJ6GEYG201	1/8W 200	1	
R11325	ERJ6GEYG562	1/8W 5.6K	1	
R11506	ERJ6GEYJ242V	1/8W 2.4K	1	
R11507	ERJ6GEYJ102V	1/8W 1K	1	
R11509	ERJ6GEYJ102V	1/8W 1K	1	
R11510	ERJ6ENF5602	1/8W 56K	1	
R11511	ERJ6GEYJ103V	1/8W 10K	1	
R11512	ERJ6GEYG242V	1/8W 2.4K	1	
R11513	ERJ6GEYG301	1/8W 300	1	
R11514	ERJ6GEYG912V	1/8W 9.1K	1	
R11601	ERJ6GEYJ472V	1/8W 4.7K	1	
R11602	ERJ6GEYJ472V	1/8W 4.7K	1	
R11604	ERJ6GEYJ513V	1/8W 51K	1	
R11605	D1BFR0150001	1/2W 0.015	1	
R11606	ERJ6RBD153	1/10W 15K	1	
R11607	ERJ6RBD911	1/10W 910	1	
R11608	ERJ6RBD512V	1/10W 5.1K	1	
R11609	ERJ6GEYF473	1/8W 47K	1	
R11610	ERJ6GEYJ103V	1/8W 10K	1	
R11611	ERJ6GEYG823	1/8W 82K	1	
R11612	ERJ6GEYF822	1/8W 8.2K	1	
R11613	ERJ6GEYJ102V	1/8W 1K	1	
R11701	ERJ6GEYG391	1/8W 390	1	
R11702	ERJ6GEYJ102V	1/8W 1K	1	
R11703	ERJ6GEYJ332V	1/8W 3.3K	1	
R11704	ERJ6GEYJ223	1/8W 22K	1	
R11706	ERJ6GEYG242V	1/8W 2.4K	1	
R11707	ERJ6ENF8200	1/8W 820	1	
R11708	ERJ6GEYG101	1/8W 100	1	
R11709	ERJ6GEYG242V	1/8W 2.4K	1	
R11720	ERDS2FJ101	1/4W 100	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R11801	ERJ6GEYJ513V	1/8W 51K	1	
R11802	D1BFR0270001	1/2W 0.027	1	
R11803	ERJ6RBD221	1/10W 220	1	
R11804	ERJ6RBD123V	1/10W 12K	1	
R11805	ERJ6RBD562	1/10W 5.6K	1	
R11807	ERJ6GEYJ471	1/8W 470	1	
R33501	ERJ3RBD472	1/16W 4.7K	1	
R33502	ERJ3RBD472	1/16W 4.7K	1	
R33503	ERJ3RBD472	1/16W 4.7K	1	
R33504	ERJ3RBD472	1/16W 4.7K	1	
R33505	ERJ3RBD472	1/16W 4.7K	1	
R35001	D0GB473JA057	1/10W 47K	1	
R35002	D0GB473JA057	1/10W 47K	1	
R35003	D0GB473JA057	1/10W 47K	1	
R35004	D0GB473JA057	1/10W 47K	1	
R35005	ERJ6GEYF473	1/8W 47K	1	
R35009	ERJ3GEY0R00	1/10W 0	1	⚠
R37001	D0GB183JA057	1/10W 18K	1	
R37002	D0GB103JA057	1/10W 10K	1	
R37003	ERJ3GEYJ821	1/10W 820	1	
R37004	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37005	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37006	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37007	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37008	D0GB473JA057	1/10W 47K	1	
R37009	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37010	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37012	D0GB473JA057	1/10W 47K	1	
R37014	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37015	ERJ3GEY0R00	1/10W 0	1	⚠
R37016	ERJ3GEY0R00	1/10W 0	1	⚠
R37502	ERJ3GEYJ472	1/10W 4.7K	1	
R37503	ERJ3GEYJ472	1/10W 4.7K	1	
R37504	ERJ3GEYJ472	1/10W 4.7K	1	
R37505	ERJ3GEYJ472	1/10W 4.7K	1	
R37508	D0GB103JA057	1/10W 10K	1	
R37509	ERJ3GEYJ472	1/10W 4.7K	1	
R37510	D0GB103JA057	1/10W 10K	1	
R37511	ERJ3GEYJ472	1/10W 4.7K	1	
R37513	D0GB473JA057	1/10W 47K	1	
R37514	D0GB473JA057	1/10W 47K	1	
R37515	D0GB473JA057	1/10W 47K	1	
R37521	ERJ3GEYJ472	1/10W 4.7K	1	
R37708	D0GB102JA057	1/10W 1K	1	
R38001	ERJ6GEYJ241	1/8W 240	1	
R38002	ERJ6GEYJ241	1/8W 240	1	
R38004	ERJ3GEYJ220	1/10W 22	1	
R38005	ERJ3GEY0R00	1/10W 0	1	⚠
R38006	D0GB103JA057	1/10W 10K	1	
R38007	D0GB103JA057	1/10W 10K	1	
R38009	ERJ3GEYJ472	1/10W 4.7K	1	
R38011	ERJ3GEY0R00	1/10W 0	1	⚠
R38012	ERJ3GEYJ332	1/10W 3.3K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R38014	**ERJ3GEYJ101**	**1/10W 100**	**1**	**D0GB101JA002**
R38015	**ERJ3GEYJ101**	**1/10W 100**	**1**	**D0GB101JA002**
R38016	**ERJ3GEYJ101**	**1/10W 100**	**1**	**D0GB101JA002**
R38017	**ERJ3GEYJ101**	**1/10W 100**	**1**	**D0GB101JA002**
R38018	**D0GB473JA057**	**1/10W 47K**	**1**	
R38020	**D0GB103JA057**	**1/10W 10K**	**1**	
R38024	**D0GB103JA057**	**1/10W 10K**	**1**	
R38025	**ERJ3GEYJ752**	**1/10W 7.5K**	**1**	
R38026	**D0GB103JA057**	**1/10W 10K**	**1**	
R38027	**ERJ3GEYJ752**	**1/10W 7.5K**	**1**	
R38028	**ERJ3GEYJ223**	**1/10W 22K**	**1**	
R38029	**ERJ3GEYJ752**	**1/10W 7.5K**	**1**	
R38030	**ERJ3GEYJ221**	**1/10W 220**	**1**	
R38031	**ERJ3GEYJ221**	**1/10W 220**	**1**	
R45001	**ERJ3GEY0R00**	**1/10W 0**	**1**	⚠
R45002	**ERJ3GEY0R00**	**1/10W 0**	**1**	⚠
R45008	**D0GB102JA057**	**1/10W 1K**	**1**	
R45009	**D0GB102JA057**	**1/10W 1K**	**1**	
R45014	**D0GB473JA057**	**1/10W 47K**	**1**	
R45015	**D0GB473JA057**	**1/10W 47K**	**1**	
R45016	**ERJ3GEYJ221**	**1/10W 220**	**1**	
T11101	**G4D2A0000267**	**TRANSFORMER**	**1**	⚠
T11301	**G4D2A0000268**	**TRANSFORMER**	**1**	⚠
VA11101	**ERZVA5V471**	**SURGE ABSORBER**	**1**	⚠
W301	**ERJ3GEY0R00**	**1/10W 0**	**1**	⚠
W302	**ERJ3GEY0R00**	**1/10W 0**	**1**	⚠
W303	**ERJ3GEY0R00**	**1/10W 0**	**1**	⚠
W304	**ERJ3GEY0R00**	**1/10W 0**	**1**	⚠
W305	**ERJ3GEY0R00**	**1/10W 0**	**1**	⚠
W306	**ERJ6GEY0R00V**	**1/8W 0**	**1**	
W307	**ERJ6GEY0R00V**	**1/8W 0**	**1**	
W308	**ERJ6GEY0R00V**	**1/8W 0**	**1**	
W309	**ERJ3GEY0R00**	**1/10W 0**	**1**	⚠
W310	**ERJ3GEY0R00**	**1/10W 0**	**1**	⚠
W311	**ERJ6GEY0R00V**	**1/8W 0**	**1**	
W312	**ERJ6GEY0R00V**	**1/8W 0**	**1**	
W313	**ERJ6GEY0R00V**	**1/8W 0**	**1**	
W314	**ERJ3GEY0R00**	**1/10W 0**	**1**	⚠
W315	**ERJ6GEY0R00V**	**1/8W 0**	**1**	
W316	**ERJ6GEY0R00V**	**1/8W 0**	**1**	
W317	**ERJ6GEY0R00V**	**1/8W 0**	**1**	
W320	**ERJ6GEY0R00V**	**1/8W 0**	**1**	
W321	**ERJ3GEY0R00**	**1/10W 0**	**1**	⚠
X38001	**H0D800400020**	**CRYSTAL OSCILLATOR**	**1**	
ZA11101	**EYF52BCY**	**FUSE HOLDER**	**1**	
ZA11102	**EYF52BCY**	**FUSE HOLDER**	**1**	
ZA11202	**XYN3+J8FJ**	**SCREW**	**1**	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
ZA11302	XYN3+J8FJ	SCREW	1	
■	VEP001P0A	SD/DV JACK P.C.B.		
C66801	ECJ1VB1H103K	50V 0.01U	1	
C66802	F1H1A225A051	10V 22U	1	
LB66801	J0JHC0000032	COIL	1	
LB66802	J0JHC0000045	COIL	1	
P66801	K1NA09E00075	CONNECTOR(9P)	1	
P66802	K1MY20BA0049	CONNECTOR(20P)	1	
P66803	K2HZ104B0016	CONNECTOR(104P)	1	
P66804	K1KA06AA0083	CONNECTOR(6P)	1	
R66801	D0GB123JA057	1/10W 12K	1	
R66802	D0GB123JA057	1/10W 12K	1	
R66804	D0GB123JA057	1/10W 12K	1	
R66805	D0GB123JA057	1/10W 12K	1	
R66806	D0GB123JA057	1/10W 12K	1	
R66807	ERJ3GEYJ223	1/10W 22K	1	
R66808	ERJ3GEYJ223	1/10W 22K	1	
R66809	ERJ3EKF75R0	1/10W 75	1	
R66810	ERJ3EKF75R0	1/10W 75	1	
R66811	ERJ3EKF75R0	1/10W 75	1	
R66812	ERJ3EKF75R0	1/10W 75	1	
R66813	ERJ3EKF75R0	1/10W 75	1	
R66814	ERJ3EKF75R0	1/10W 75	1	
R66815	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
■	VEP73137A	HDMI P.C.B.		
C56001	ECJ0EC1H221J	50V 220P	1	
C56101	ECJ0EB1A104K	10V 0.1U	1	
C56102	ECJ0EB1A104K	10V 0.1U	1	
C56103	ECJ0EB1A104K	10V 0.1U	1	
C56104	ECJ0EB1A104K	10V 0.1U	1	
C56105	ECJ0EB1A104K	10V 0.1U	1	
C56106	ECJ0EB1A104K	10V 0.1U	1	
C56107	ECJ0EB1A104K	10V 0.1U	1	
C56108	ECJ0EB1A104K	10V 0.1U	1	
C56109	ECJ0EB1A104K	10V 0.1U	1	
C56110	ECJ0EB1A104K	10V 0.1U	1	
C56111	ECJ0EB1A104K	10V 0.1U	1	
C56112	ECJ0EB1A104K	10V 0.1U	1	
C56113	ECJ0EB1A104K	10V 0.1U	1	
C56114	ECJ0EB1A104K	10V 0.1U	1	
C56115	ECJ0EB1A104K	10V 0.1U	1	
C56116	ECJ0EB1A104K	10V 0.1U	1	
C56117	ECJ0EB1A104K	10V 0.1U	1	
C56118	ECJ0EB1A104K	10V 0.1U	1	
C56119	ECJ0EB1A104K	10V 0.1U	1	
C56120	ECJ0EB1A104K	10V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C56121	ECJ0EB1A104K	10V 0.1U	1	
C56122	ECJ0EB1A104K	10V 0.1U	1	
C56123	ECJ0EB1A104K	10V 0.1U	1	
C56124	ECJ0EB1A104K	10V 0.1U	1	
C56125	ECJ0EB1A104K	10V 0.1U	1	
C56126	ECJ0EB1A104K	10V 0.1U	1	
C56127	ECJ0EB1A104K	10V 0.1U	1	
C56128	ECJ0EB1A104K	10V 0.1U	1	
C56129	ECJ0EC1H221J	50V 220P	1	
C56130	ECJ1VB0J105K	6.3V 1U	1	
C56131	ECJ2FB0J106K	6.3V 10U	1	
C56132	ECJ0EB1C103K	16V 0.01U	1	
C56133	ECJ1VB1A105K	10V 1U	1	
C56134	ECJ1VB1A105K	10V 1U	1	
C56135	ECJ0EB1A104K	10V 0.1U	1	
C56140	ECJ0EB1A104K	10V 0.1U	1	
D56101	MA2J72800L	DIODE	1	
FL56101	F1H0J1050025	FILTER	1	
FL56102	F1H0J1050025	FILTER	1	
FL56103	F1H0J1050025	FILTER	1	
FL56104	F1H0J1050025	FILTER	1	
FL56105	F1H0J1050025	FILTER	1	
FL56106	F1H0J1050025	FILTER	1	
FL56110	F1H0J1050025	FILTER	1	
FP56101	K1MN40AA0082	CONNECTOR(40P)	1	
IC56101	C0JBAZ002116	IC	1	
IC56102	C0JBAZ002116	IC	1	
IC56103	MN864701	IC	1	
IC56104	C0CBCBD00048	IC	1	
IC56105	C0CBCDC00052	IC	1	
IC56107	C0JBAB000604	IC	1	
L56101	J0MAB0000170	COIL	1	
L56102	J0MAB0000170	COIL	1	
L56103	J0MAB0000170	COIL	1	
L56104	J0MAB0000170	COIL	1	
LB56101	J0JHC0000032	COIL	1	
LB56102	J0JHC0000032	COIL	1	
LB56103	J0JHC0000032	COIL	1	
LB56104	J0JCC0000119	COIL	1	
LB56105	J0JCC0000119	COIL	1	
LB56106	J0JCC0000119	COIL	1	
LB56107	J0JCC0000119	COIL	1	
LB56108	J0JHC0000032	COIL	1	
LB56109	J0JHC0000032	COIL	1	
LB56110	J0JHC0000032	COIL	1	
LB56111	J0JHC0000032	COIL	1	
LB56112	J0JHC0000032	COIL	1	
LB56115	J0JHC0000032	COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB56116	J0JHC0000032	COIL	1	
P56101	K1KY10BA0033	CONNECTOR(10P)	1	
P56102	K1FA119E0002	CONNECTOR(119P)	1	
Q56001	2SD1819AWL	TRANSISTOR	1	
Q56002	2SD1819AWL	TRANSISTOR	1	
Q56101	2SD1819AWL	TRANSISTOR	1	
Q56102	B1CFHA000002	TRANSISTOR	1	
Q56103	B1CFHA000002	TRANSISTOR	1	
Q56104	2SD1819AWL	TRANSISTOR	1	
Q56105	2SD1819AWL	TRANSISTOR	1	
R56001	ERJ2GEJ472	1/16W 4.7K	1	
R56002	ERJ2GEJ473	1/16W 47K	1	
R56003	ERJ2GEJ225	1/16W 2.2M	1	ERJ2RMJ225X
R56004	ERJ2GEJ104	1/16W 100K	1	
R56101	ERJ2GEJ220	1/16W 22	1	
R56102	ERJ2RKD330	1/16W 33	1	
R56103	ERJ2RKD330	1/16W 33	1	
R56104	ERJ2RKD330	1/16W 33	1	
R56105	ERJ2RKD330	1/16W 33	1	
R56106	ERJ2GEJ820	1/16W 82	1	
R56107	ERJ2RKD330	1/16W 33	1	
R56108	ERJ2RKD330	1/16W 33	1	
R56109	ERJ2GEJ121	1/16W 120	1	
R56110	ERJ2RKD330	1/16W 33	1	
R56111	ERJ2RKD330	1/16W 33	1	
R56112	ERJ2RKD330	1/16W 33	1	
R56114	ERJ2RKD330	1/16W 33	1	
R56115	ERJ2GEJ820	1/16W 82	1	
R56116	ERJ2GEJ101	1/16W 100	1	
R56117	ERJ2GEJ151	1/16W 150	1	
R56118	ERJ2GEJ820	1/16W 82	1	
R56119	ERJ2RKD330	1/16W 33	1	
R56120	ERJ2GEJ151	1/16W 150	1	
R56121	ERJ2GEJ151	1/16W 150	1	
R56122	ERJ2GEJ151	1/16W 150	1	
R56123	ERJ2GEJ511	1/16W 510	1	
R56124	ERJ2GEJ103	1/16W 10K	1	
R56125	ERJ2GEJ202	1/16W 2K	1	
R56126	ERJ2GEJ202	1/16W 2K	1	
R56127	ERJ2GEJ103	1/16W 10K	1	
R56128	ERJ2GEJ202	1/16W 2K	1	
R56129	ERJ2GEJ202	1/16W 2K	1	
R56130	ERJ2GED273X	0.063W 56K	1	ERJ2RHD273X
R56131	ERJ2GEJ221	1/16W 220	1	
R56132	ERJ2GEJ224	1/16W 220K	1	
R56133	ERJ2GEJ104	1/16W 100K	1	
R56134	ERJ2GEJ470	1/16W 47	1	
R56135	ERJ2GEJ470	1/16W 47	1	
R56137	D0YAR0000007	1/16W 0	1	
R56138	D0YAR0000007	1/16W 0	1	
R56139	ERJ2GEJ820	1/16W 82	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R56140	ERJ2GEJ8R2	1/16W 8.2	1	
R56142	ERJ2RKD330	1/16W 33	1	
R56143	ERJ2RKD330	1/16W 33	1	
R56144	ERJ2GEJ8R2	1/16W 8.2	1	
R56145	ERJ2GEJ8R2	1/16W 8.2	1	
R56146	ERJ2GEJ8R2	1/16W 8.2	1	
R56147	ERJ2GEJ8R2	1/16W 8.2	1	
R56148	ERJ2GEJ8R2	1/16W 8.2	1	
R56149	ERJ2GEJ8R2	1/16W 8.2	1	
R56150	ERJ2GEJ8R2	1/16W 8.2	1	
R56151	ERJ2GEJ820	1/16W 82	1	
R56152	ERJ2GEJ820	1/16W 82	1	
R56153	ERJ2GEJ820	1/16W 82	1	
R56154	ERJ2GEJ820	1/16W 82	1	
R56155	ERJ2GEJ820	1/16W 82	1	
R56156	ERJ2GEJ820	1/16W 82	1	
R56157	ERJ2GEJ820	1/16W 82	1	
R56158	ERJ2GEJ152	1/16W 1.5K	1	
R56159	ERJ2GEJ332	1/16W 3.3K	1	
R56160	ERJ2GEJ223	1/16W 22K	1	
R56161	ERJ2GEJ470	1/16W 47	1	
RX56101	EXB28V330J	RESISTOR-RESISTOR	1	
RX56102	EXB28V330J	RESISTOR-RESISTOR	1	
VA56101	D4ED13900002	VARISTORS	1	
VA56102	D4ED13900002	VARISTORS	1	
VA56103	EZJZ0V800AA	VERIABLE RESISTOR	1	
VA56104	D4ED13900002	VARISTORS	1	
VA56105	EZJZ0V800AA	VERIABLE RESISTOR	1	
VA56106	D4ED13900002	VARISTORS	1	
VA56107	EZJZ0V800AA	VERIABLE RESISTOR	1	
VA56108	D4ED13900002	VARISTORS	1	
VA56109	EZJZ0V800AA	VERIABLE RESISTOR	1	
VA56110	D4ED13900002	VARISTORS	1	
VA56111	EZJZ0V800AA	VERIABLE RESISTOR	1	
VA56112	D4ED13900002	VARISTORS	1	
VA56113	D4ED13900002	VARISTORS	1	
■	VEP04909A	FRONT(L)P.C.B.		
C3801	ECJ1VF1H103Z	50V 0.01U	1	
JK3802	K1CB104A0017	JACK,S1 IN	1	
JK4600	K2HA307A0011	JACK,L2	1	
LB3301	ERJ3GEY0R00	1/10W 0	1	⚠
LB3302	ERJ3GEY0R00	1/10W 0	1	⚠
LB3303	ERJ3GEY0R00	1/10W 0	1	⚠
PP4801	K1KA10B00196	CONNECTOR(10P)	1	
R3801	ERJ3EKF75R0	1/10W 75	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3802	ERJ3EKF75R0	1/10W 75	1	
R3803	ERJ3EKF75R0	1/10W 75	1	
R3804	D0GB102JA057	1/10W 1K	1	
R4305	ERJ3GEY0R00	1/10W 0	1	⚠
R4306	ERJ3GEY0R00	1/10W 0	1	⚠
R7801	ERJ3GEYJ392	1/10W 3.9K	1	
R7802	ERJ3GEYJ392	1/10W 3.9K	1	
R7803	ERJ3GEYJ392	1/10W 3.9K	1	
R7804	ERJ3GEYJ272	1/10W 2.7K	1	
R7805	ERJ3GEYJ272	1/10W 2.7K	1	
R7806	ERJ3GEYJ822	1/10W 8.2K	1	
S7801	EVQ11G07K	SWITCH,CH DOWN	1	
S7802	EVQ11G07K	SWITCH,REW	1	
S7803	EVQ11G07K	SWITCH,CH UP	1	
S7806	EVQ11G07K	SWITCH,POWER	1	
S7810	EVQ11G07K	SWITCH,EF	1	
S7813	EVQ11G07K	SWITCH,EJECT	1	
■	VEP07A92A	FRONT(R)P.C.B.		
C7701	ECJ1VF1C104Z	16V 0.1U	1	
D7701	B3AEA0000082	DIODE	1	
D7702	B3ADA0000173	DIODE	1	
D7703	B3ACA0000273	DIODE	1	
D7704	B3ABA0000595	DIODE	1	
D7705	B3AEA0000069	DIODE	1	
D7706	B3AAA0000752	DIODE	1	
IC7701	PNA4618M13VT	IC	1	
PP7701	K1KA10B00196	CONNECTOR(10P)	1	
PP7702	K1KA06B00150	CONNECTOR(6P)	1	
Q7701	2SD0601ARL	TRANSISTOR	1	
Q7702	2SD0601ARL	TRANSISTOR	1	
Q7703	2SD0601ARL	TRANSISTOR	1	
Q7704	2SD0601ARL	TRANSISTOR	1	
Q7705	2SD0601ARL	TRANSISTOR	1	
Q7706	2SD0601ARL	TRANSISTOR	1	
R7701	ERJ3GEYJ272	1/10W 2.7K	1	
R7702	D0GB151JA057	1/10W 150	1	
R7703	D0GB152JA057	1/10W 1.5K	1	
R7704	D0GB152JA057	1/10W 1.5K	1	
R7705	ERJ3GEYJ391	1/10W 390	1	D0GB391JA002
R7706	ERJ3GEYJ391	1/10W 390	1	D0GB391JA002
R7707	ERJ3GEYJ222	1/10W 2.2K	1	
R7708	ERJ3GEYJ681	1/10W 680	1	
R7709	ERJ3GEYJ471	1/10W 470	1	
R7710	ERJ3GEYJ221	1/10W 220	1	
R7711	D0GB183JA057	1/10W 18K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7712	ERJ3GEYJ822	1/10W 8.2K	1	
R7713	ERJ3GEYJ392	1/10W 3.9K	1	
R7714	D0GB152JA057	1/10W 1.5K	1	
R7715	ERJ3GEYJ271	1/10W 270	1	
R7716	ERJ3GEYJ104	1/10W 100K	1	
R7717	ERJ3GEYJ104	1/10W 100K	1	
R7718	ERJ3GEYJ104	1/10W 100K	1	
R7719	ERJ3GEYJ104	1/10W 100K	1	
R7720	ERJ3GEYJ104	1/10W 100K	1	
R7721	ERJ3GEYJ104	1/10W 100K	1	
S7701	EVQ11G07K	SWITCH,H2D	1	
S7702	EVQ11G07K	SWITCH,V2D	1	
S7703	EVQ11G07K	SWITCH,REC	1	
S7704	EVQ11G07K	SWITCH,PLAY	1	
S7705	EVQ11G07K	SWITCH,STOP	1	
S7706	EVQ11G07K	SWITCH,SELECT	1	
S7707	EVQ11G07K	SWITCH,OPEN/CLOSE	1	
S7708	EVQ11G07K	SWITCH,H2V	1	
S7709	EVQ11G07K	SWITCH,D2H	1	
S7710	EVQ11G07K	SWITCH,V2H	1	
S7711	EVQ11G07K	SWITCH,D2V	1	
ZB7701	RMN0848	LED HOLDER	1	
■		CASING/ACCESSORY/PACKING		
1	VEP001P0A	SD_DV P.C.B.	1	
2	VEE1C17	WIRE WITH CONNECTOR(4P)	1	
3	VEP73137A	HDMI P.C.B.	1	(RTL)
4	VEP06G25BT	MAIN P.C.B.	1	(RTL)
7	VEP04909A	FRONT(L)P.C.B.	1	(RTL)
8	RFKB09143AD	DIGITAL IF P.C.B.	1	
9	VEP07A92A	FRONT(R)P.C.B.	1	(RTL)
10	RMZ0839	BARRIER	1	
11	RFKV0065HDK	HDD 80GB	1	
13	VWJ1727-RW	FFC(6P)	1	
14	VWJ1728-RW	FFC(7P)	1	
15	VEE1C37	FFC(40P)	1	
16	VEE1C38	FFC(20P)	1	
17	VEE1C39	FFC(40P)	1	
18	L6FALCCE0016	FAN MOTOR	1	
19	RGR0368B-A	REAR PANEL	1	⚠
20	N5EZZ0000003	HDD CONNECTOR	1	
21	RMA1994	HDD BRACKET	1	
23	RMQ1514	HEAT TRANSFER SHEET D	1	
24	RMV0312	SHEET COVER	1	
25	RMX0354	MECHA SPACER(F)	1	
26	RMX0355	MECHA SPACER(R)	1	
27	RMZ0776	CELL COVER	1	
28	RMZ0791	BARRIER	1	
30	RKA0178-X	LEG	1	
31	RKA0178-X	LEG	1	
32	VKA0382	LEG CUSHION	1	

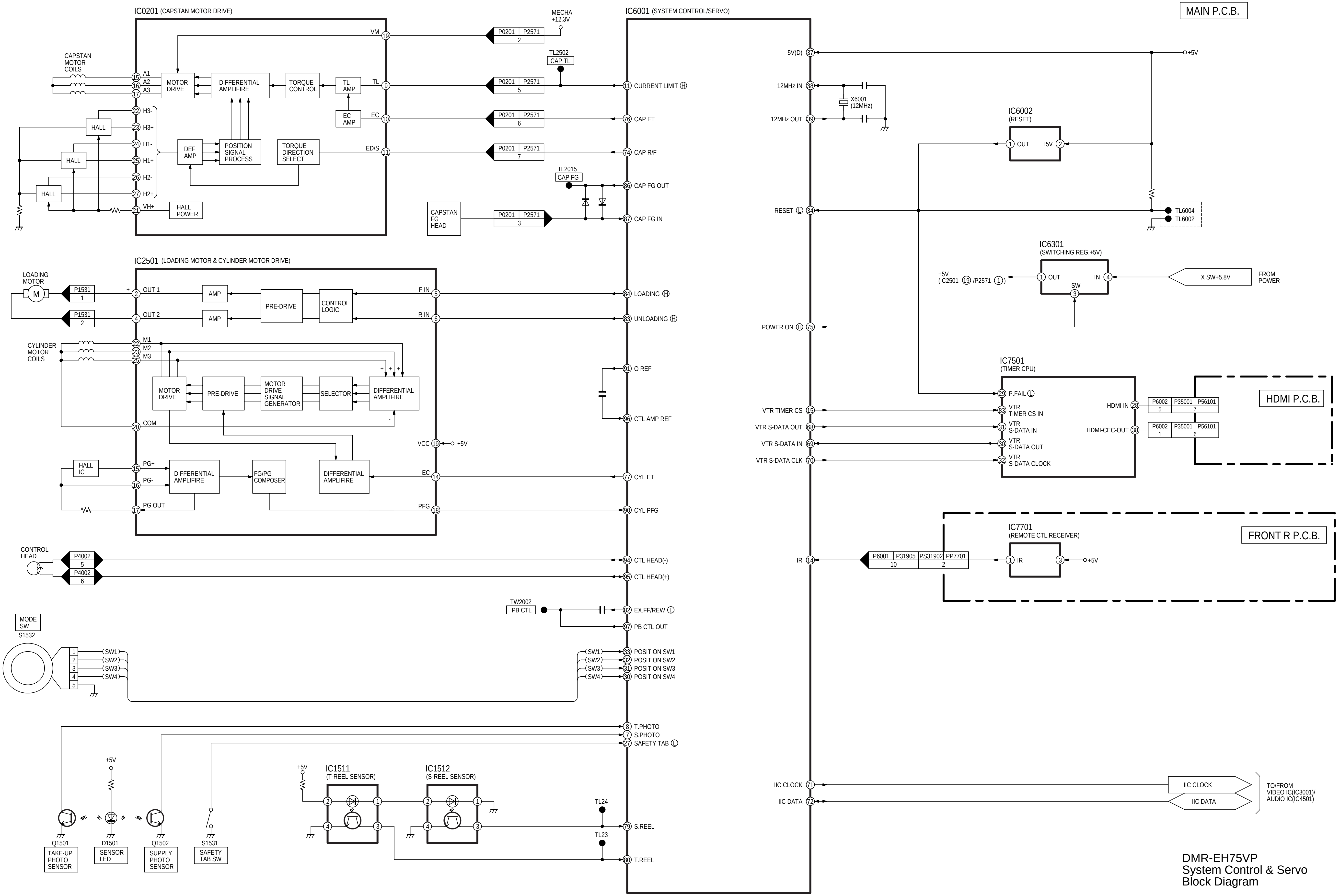
32	VKA0382	LEG CUSHION	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
33	VKA0382	LEG CUSHION	1	
34	RMC0672	PLATE SPRING	1	
35	RMY0357	HEAT SINK	1	
36	RYP1317A-S1	FRONT PANEL ASS’Y 1	1	
36-1	RXQ1409A	DUB BUTTON ASS’Y	1	
36-2	RGK1995-W	SD ORNAMENT	1	
36-3	RGL0687-Q	SD PANEL LIGHT	1	
36-4	RGQ0445-W	SD REFLECTOR	1	
36-5	RYF0784A-S	DOOR ASS’Y	1	
36-6	RGU2467-S	EJECT BUTTON	1	
36-7	RGU2468-S	OPEN BUTTON	1	
36-8	RGU2469-S	CHANNEL BUTTON	1	
36-9	RGU2470-S1	PLAY BUTTON	1	
36-10	RKF0757-S	BLINDER PANEL	1	
36-11	RKF0758-S	TRAY DOOR	1	
36-12	RMB0857	TRAY DOOR SPRING	1	
36-13	VMB2521	BLINDER SPRING	1	
36-14	RDG0620	OIL DAMPER	1	
36-15	RHD26045	SCREW	1	
36-16	VSQ1088-2	MAGNET	2	
37	VJF0036	NYRON RIVET	2	
39	RKM0558-S	TOP CASE	1	⚠
40	RMA1995	DVD ANGLE	1	
41	RMC0632	EARTH SPRING	1	
42	RMQ1513	HEAT TRANSFER SHEET	1	
43	VHD1092-1	SCREW	1	
44	RHD30148	SCREW	1	
45	XTV26+6FFJ	SCREW	1	
46	RHD30119-L	SCREW	13	
47	XSN3+4FJ	SCREW	2	
49	RHD30111-3	SCREW	21	
50	RHD32001	SCREW	4	
51	RHD26045	SCREW	9	
52	RHD30113	SCREW	4	
53	VKC0295	PCB HOLDER	2	
54	RHDC0023	SCREW	3	
56	VEP79118G	DIGITAL P.C.B.	1	(RTL)
57	RFKNEH75VP	RAM/DIGITAL P.C.B. MODULE	1	(RTL)
101	VEG1697KIT	RDD CYLINDER ASS’Y	1	
101-1	VMD5464	FPC HOLDER	1	
102	VEM0800T	CAPSTAN MOTOR	1	
103	L1AZ00000004	FE HEAD ASS’Y	1	
104	VDB1431	TENSION ARM BOSH	1	
105	VDG1686	INTERMEDIATE GEAR	1	
106	VDG1685	MAIN CAM GEAR	1	
107	VDG1512	IDLER GEAR	2	
108	VDG1514	CHANGE GEAR	1	
109	VDR0372A	REEL TABLE	2	
110	VDV0391	CAPSTAN BELT	1	
111	VEM0797	LOADING MOTOR	1	
112	VMB3550A	CHANGING GEAR SPRING	1	
113	VMD4987	WORM SHAFT HOLDER	1	
114	VMD5466	OPENER PIECE	1	
115	VMD4253	LED PRISM	1	

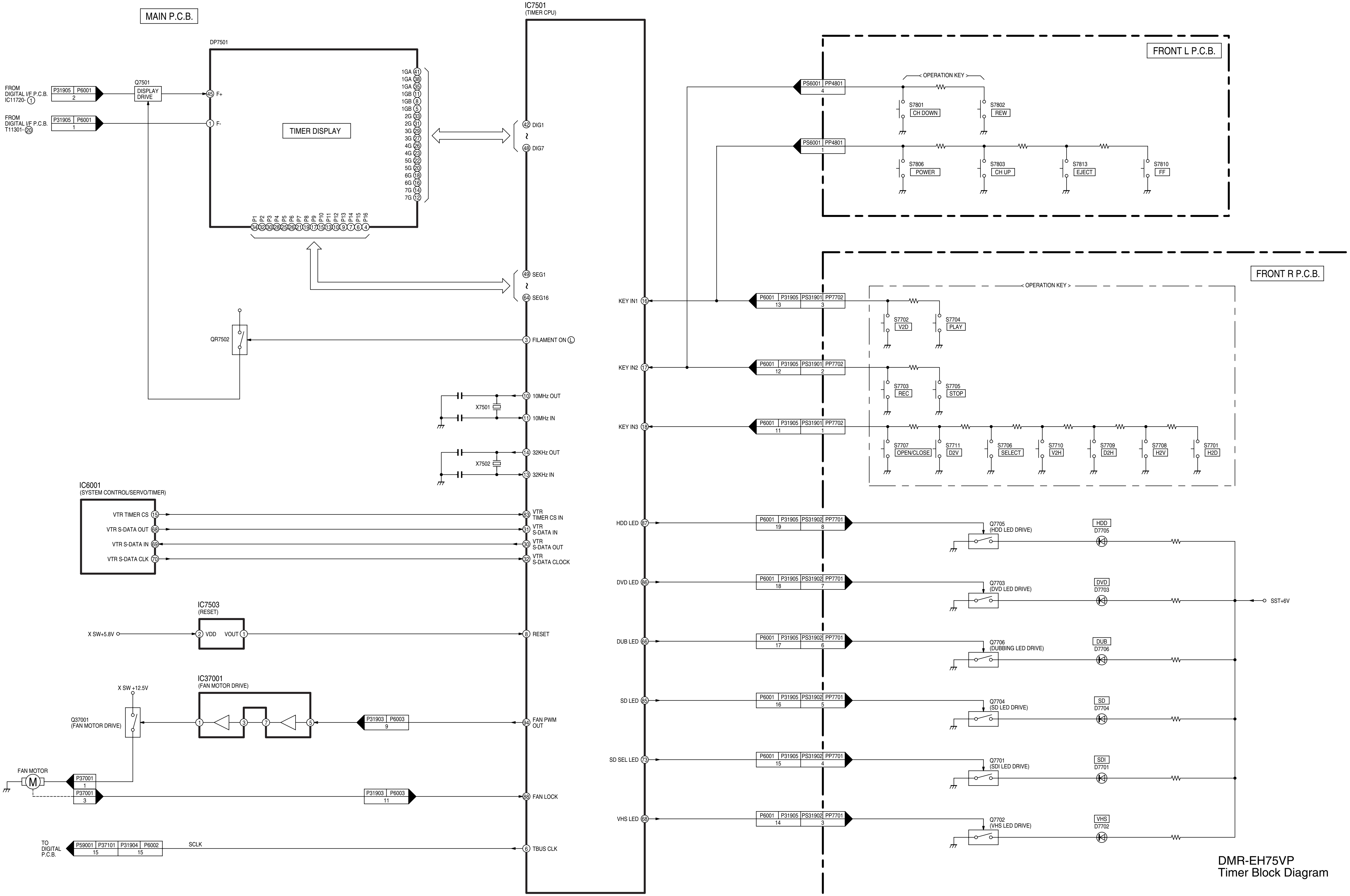
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
116	VML3934	MAIN LEVER	1	
117	VML3933	PINCH CHARGE ARM	1	
118	VML3632	IDLER ARM	1	
119	VMX3092	P4 CAP	1	
120	VXA7105	S SHAFT HOLDER	1	
121	VXA7106	T SHAFT HOLDER	1	
122	L1AE00000044	AC HEAD ASS'Y	1	
122-1	VHD1066-2	SCREW	2	
122-2	VHD1185	SCREW	1	
124	VXL3107	S LOADING ARM	1	
125	VXL3108	T LOADING ARM	1	
126	VXL3109-7	PINCH ARM	1	
127	VXL3110	P5 ARM	1	
128	VXL3111-1	TENSION ARM	1	
129	VXL3252	S BRAKE ARM	1	
130	VXL3343	T BRAKE ARM	1	
130-1	VMB3548	T BRAKE SPRING	1	
131	VXL3124	CHANGING LEVER	1	
132	VXP2133	CENTER CLUTH	1	
133	VXP2168	TORQUE CLUTCH	1	
134	VMA0L25	TOP PLATE	1	
135	VMD5468	SIDE PLATE(L)	1	
136	VMD5469	SIDE PLATE(R)	1	
137	VXA8265	CASSETTE HOLDER ASS'Y	1	
138	VXL3160	MAIN SHAFT	1	
139	VDG1684	SECTOR GEAR	1	
141	VML3706	OPENER LEVER	1	
142	VHD1044-1	SCREW	1	
143	XYN3+C4FJ	SCREW	1	
144	XTN26+7JFJ	SCREW	3	
145	XTV26+5FFJ	SCREW	2	
146	XTV26+8FFJ	SCREW	2	
148	VHD1117-1	SCREW	3	
149	VMX2208	WASHER	1	
150	VMX3314	WASHER	1	
151	VMX2699	WASHER	1	
152	VMX3196	WASHER	1	
A1	EUR7659Y90	REMOTE CONTROL ASS'Y	1	
A1-1	UR76EC5903	BATTERY COVER	1	
A2	VFA0461	AC CORD	1	⚠
A3	K2KA6BA00003	AV CORD	1	
A4	K2KZ2BA00001	RF COAXIAL CABLE	1	
A5	K2ZZ04C00001	IR BLUSTER	1	
A6	RPQF0220-1	ACCESSORY CASE	1	
A7	RQCA1482-1	SET-UP GUIDE	1	
A8	RPF0378	POLYETHYLENE BAG(F.B.)	1	
A9	RQT8346-1P	OPERATING INSTRUCTIONS	1	(IA) ⚠
A10	RPQ2183	PAD	1	
PC1	RPG7918-1	PACKING CASE	1	
PC2	RPN1864-2	CUSHION	1	
PC3	VPF0505	POLYETHYLENE BAG(UNIT)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks

18. Schematic Diagram for printing with A4


MAIN P.C.B.
IC0201 (CAPSTAN MOTOR DRIVE)
MECHA +12.3V
VM
P0201 P2571 2
CAPSTAN MOTOR COILS
A1
A2
A3
MOTOR DRIVE
DIFFERENTIAL AMPLIFIRE
TORQUE CONTROL
TL AMP
TL
EC AMP
EC
TL2502 CAP TL
P0201 P2571 5
P0201 P2571 6
P0201 P2571 7
H3-
H3+
H1-
H1+
H2-
H2+
VH+
HALL
HALL
HALL
DEF AMP
POSITION SIGNAL PROCESS
TORQUE DIRECTION SELECT
ED/S
HALL POWER
TL2015 CAP FG
CAPSTAN FG HEAD
P0201 P2571 3
IC6001 (SYSTEM CONTROL/SERVO)
11 CURRENT LIMIT Ⓗ
76 CAP ET
74 CAP R/F
86 CAP FG OUT
87 CAP FG IN
5V(D) 37
+5V
12MHz IN 38
12MHz OUT 39
X6001 (12MHz)
IC6002 (RESET)
1 OUT +5V 2
RESET Ⓛ 34
TL6004
TL6002
IC6301 (SWITCHING REG.+5V)
+5V (IC2501- ⑲ /P2571- ①)
1 OUT IN 4
SW 3
X SW+5.8V
FROM POWER
POWER ON Ⓗ 75
IC2501 (LOADING MOTOR & CYLINDER MOTOR DRIVE)
LOADING MOTOR
M
P1531 1
P1531 2
OUT 1
OUT 2
AMP
AMP
PRE-DRIVE
CONTROL LOGIC
F IN
R IN
84 LOADING Ⓗ
83 UNLOADING Ⓗ
CYLINDER MOTOR COILS
M1
M2
M3
COM
MOTOR DRIVE
PRE-DRIVE
MOTOR DRIVE SIGNAL GENERATOR
SELECTOR
DIFFERENTIAL AMPLIFIRE
VCC 19 +5V
91 O REF
96 CTL AMP REF
HALL IC
PG+
PG-
PG OUT
DIFFERENTIAL AMPLIFIRE
FG/PG COMPOSER
DIFFERENTIAL AMPLIFIRE
EC
PFG
77 CYL ET
90 CYL PFG
IC7501 (TIMER CPU)
29 P.FAIL Ⓛ
VTR TIMER CS 15
83 VTR TIMER CS IN
VTR S-DATA OUT 68
31 VTR S-DATA IN
VTR S-DATA IN 69
30 VTR S-DATA OUT
VTR S-DATA CLK 70
32 VTR S-DATA CLOCK
HDMI IN 28
HDMI-CEC-OUT 38
P6002 P35001 P56101 5 7
P6002 P35001 P56101 1 6
HDMI P.C.B.
IC7701 (REMOTE CTL.RECEIVER)
FRONT R P.C.B.
IR 14
P6001 P31905 PS31902 PP7701 10 2
1 IR 3 +5V
CONTROL HEAD
P4002 5
P4002 6
94 CTL HEAD(-)
95 CTL HEAD(+)
TW2002 PB CTL
82 EX.FF/REW Ⓛ
97 PB CTL OUT
MODE SW S1532
SW1
SW2
SW3
SW4
33 POSITION SW1
32 POSITION SW2
31 POSITION SW3
30 POSITION SW4
8 T.PHOTO
7 S.PHOTO
27 SAFETY TAB Ⓛ
+5V
IC1511 (T-REEL SENSOR)
IC1512 (S-REEL SENSOR)
TL24
TL23
79 S.REEL
80 T.REEL
IIC CLOCK 71
IIC DATA 72
IIC CLOCK
IIC DATA
TO/FROM VIDEO IC(IC3001)/ AUDIO IC(IC4501)
Q1501 TAKE-UP PHOTO SENSOR
D1501 SENSOR LED
Q1502 SUPPLY PHOTO SENSOR
S1531 SAFETY TAB SW

DMR-EH75VP
System Control & Servo
Block Diagram


MAIN P.C.B.
IC7501
(TIMER CPU)
DP7501
FROM DIGITAL I/F P.C.B. IC11720- ①
FROM DIGITAL I/F P.C.B. T11301- ⑳
P31905 P6001 2
P31905 P6001 1
Q7501 DISPLAY DRIVE
F+
F-
TIMER DISPLAY
1GA 1GA 1GA 1GB 1GB 1GB 2G 2G 3G 3G 4G 4G 5G 5G 6G 6G 7G 7G
P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14 P15 P16
DIG1
DIG7
SEG1
SEG16
QR7502
FILAMENT ON Ⓛ
X7501
10MHz OUT
10MHz IN
X7502
32KHz OUT
32KHz IN
IC6001
(SYSTEM CONTROL/SERVO/TIMER)
VTR TIMER CS
VTR S-DATA OUT
VTR S-DATA IN
VTR S-DATA CLK
VTR TIMER CS IN
VTR S-DATA IN
VTR S-DATA OUT
VTR S-DATA CLOCK
IC7503
(RESET)
X SW+5.8V
VDD
VOUT
RESET
IC37001
(FAN MOTOR DRIVE)
X SW +12.5V
Q37001
(FAN MOTOR DRIVE)
P31903 P6003 9
FAN PWM OUT
FAN MOTOR
P37001 1
P37001 3
P31903 P6003 11
FAN LOCK
TO DIGITAL P.C.B.
P59001 P37101 P31904 P6002 15 15
SCLK
TBUS CLK
KEY IN1
KEY IN2
KEY IN3
HDD LED
DVD LED
DUB LED
SD LED
SD SEL LED
VHS LED
FRONT L P.C.B.
PS6001 PP4801 4
PS6001 PP4801 1
OPERATION KEY
S7801 CH DOWN
S7802 REW
S7806 POWER
S7803 CH UP
S7813 EJECT
S7810 FF
FRONT R P.C.B.
OPERATION KEY
P6001 P31905 PS31901 PP7702 13 3
P6001 P31905 PS31901 PP7702 12 2
P6001 P31905 PS31901 PP7702 11 1
S7702 V2D
S7704 PLAY
S7703 REC
S7705 STOP
S7707 OPEN/CLOSE
S7711 D2V
S7706 SELECT
S7710 V2H
S7709 D2H
S7708 H2V
S7701 H2D
P6001 P31905 PS31902 PP7701 19 8
P6001 P31905 PS31902 PP7701 18 7
P6001 P31905 PS31902 PP7701 17 6
P6001 P31905 PS31902 PP7701 16 5
P6001 P31905 PS31902 PP7701 15 4
P6001 P31905 PS31902 PP7701 14 3
Q7705 (HDD LED DRIVE)
Q7703 (DVD LED DRIVE)
Q7706 (DUBBING LED DRIVE)
Q7704 (SD LED DRIVE)
Q7701 (SDI LED DRIVE)
Q7702 (VHS LED DRIVE)
HDD D7705
DVD D7703
DUB D7706
SD D7704
SDI D7701
VHS D7702
SST+6V

DMR-EH75VP
Timer Block Diagram

Digital IF P.C.B.

Integrated Circuit	
IC11201	D-8
IC11301	D-7
IC11502	B-8
IC11601	D-5
IC11602	C-5
IC11701	C-6
IC11720	C-5
IC11801	D-5
IC31501	C-2
IC31503	C-3
IC37001	B-4
IC37501	D-2
IC38001	B-2
IC38002	B-1
IC45001	D-4

Transistor	
Q11101	C-9
Q11301	C-6
Q11601	B-9
Q11602	C-5
Q11603	C-5
Q11801	D-5
Q37001	B-4
Q37501	D-3
Q37502	D-3
Q37503	D-3
Q37505	D-2
Q37506	D-2
Q37507	D-2
Q38001	B-1
Q38002	C-1
Q38003	B-1
Q38004	B-1
Q38005	C-2

Transistor-resistor	
QR11601	B-9
QR11602	D-5
QR11603	D-5
QR11604	D-5

Test Point	
CL38001	B-1
CL38002	B-2
CL38003	B-2
CL38004	B-1
CL38005	B-1
CL38006	B-1
CL38008	B-2
CL38009	B-1
CL38010	B-2
CL38011	B-1
CL38012	B-2
CL38013	B-2
CL38014	B-1
CL38015	B-1
CL38016	B-1
CL38017	B-1
TL38001	B-9

Connector	
JK38001	A-9
P11101	E-9
P11602	B-8
P31901	A-8
P31902	A-7
P31903	A-6
P31904	A-6
P31905	A-3
P35001	A-9
P37001	A-7
P37101	D-3
PS31901	D-1
PS31902	A-1

Diode	
D11101	D-6
D11102	D-6
D11201	D-9
D11203	D-8
D11205	D-8
D11210	C-8
D11212	D-9
D11303	D-8
D11304	D-8
D11305	D-8
D11306	C-8
D11401	C-8
D11402	B-8
D11505	C-9
D11602	C-5
D11701	C-7
D11703	C-7
D11704	C-6
D11705	C-6
D11706	C-7
D11720	C-6
D11721	C-6
D11722	C-5
D11801	D-5

Crystal Oscillator	
X38001	B-2

IC Protector	
IP11702	C-6
IP11703	C-6

Coil	
L11101	D-7
L11102	D-6
L11401	B-8
L11601	B-8
L11602	D-5
L11603	C-5
L11604	C-5
L11701	B-7
L11703	B-7
L11704	D-6
L11705	D-5
L11801	D-5
L35001	D-5
L37001	A-6
LB11101	D-7
LB11102	D-7
LB11103	C-6
LB11201	C-8
LB11301	D-7
LB11601	C-5
LB11602	B-8
LB11603	B-8
LB11701	C-7
LB11702	C-6
LB11703	B-8
LB11801	D-5
LB37001	D-3
LB37002	D-3
LB37003	D-3
LB37004	D-3
LB37005	D-4
LB37006	D-4
LB37007	D-3
LB37008	D-2
LB37009	C-3
LB37010	D-3
LB37011	C-3
LB37012	D-3
LB37013	D-3
LB37014	B-4
LB38001	B-2
LB45001	D-3

Fuse	
F11101	D-8

Capasitor	
C11101	E-8
C11102	E-9
C11103	E-8
C11104	E-6
C11105	D-6
C11106	D-7
C11108	D-6
C11109	C-6
C11201	C-8
C11204	D-8
C11205	D-8
C11211	D-8
C11212	D-8
C11213	D-8
C11214	D-9
C11307	C-7
C11308	D-7
C11309	C-7
C11310	D-8
C11311	D-8
C11401	B-8
C11403	B-8
C11512	B-9
C11513	B-9
C11601	C-6
C11603	D-5
C11604	B-8
C11605	D-5
C11606	D-5
C11607	D-5
C11608	D-5
C11610	C-5
C11612	C-5
C11613	C-5
C11615	B-8
C11616	B-8
C11617	B-8
C11618	B-9
C11619	C-5
C11620	C-5
C11621	C-5
C11701	B-7
C11703	B-7
C11704	B-8
C11705	C-6
C11706	C-6
C11707	B-7
C11709	B-6
C11711	C-6
C11712	C-6
C11720	C-5
C11721	C-5
C11722	C-5
C11801	E-5
C11802	E-5
C11803	E-5
C11804	E-5
C11805	E-5
C11806	D-5
C11807	D-5
C31504	C-2
C31505	C-2
C31506	C-3
C31507	C-3
C31508	C-3
C33505	E-4
C35001	D-5
C37001	A-5
C37005	D-2
C37006	D-2
C37010	D-2
C37011	D-3
C37012	D-3
C37013	D-3
C37501	D-2
C38001	C-1
C38002	B-2
C38004	B-2
C38005	B-2
C38007	B-2
C38008	B-2
C38009	B-2
C45001	E-4
C45003	E-4
C45004	E-4
C45007	E-3
C45008	E-3
C45011	D-1
C45012	C-1
C45013	A-7
C45014	A-7
C45017	E-2
C45018	E-2

Resistor	
R11201	C-8
R11202	D-8
R11203	D-8
R11204	D-8
R11208	C-8
R11219	C-8
R11220	D-8
R11222	D-9
R11223	D-9
R11307	D-7
R11308	D-7
R11309	D-7
R11321	D-8
R11322	D-8
R11323	C-7
R11324	D-8
R11325	C-8
R11506	C-9
R11507	C-9
R11509	C-9
R11510	B-8
R11511	B-9
R11512	B-9
R11513	B-9
R11514	B-9
R11601	B-9
R11602	B-9
R11604	D-5
R11605	C-5
R11606	C-5
R11607	C-5
R11608	D-5
R11609	C-5
R11610	D-5
R11611	D-5
R11612	C-5
R11613	C-5
R11701	C-6
R11702	C-6
R11703	C-6
R11704	C-6
R11706	C-6
R11707	C-6
R11708	C-6
R11709	C-6
R11801	E-5
R11802	D-5
R11803	D-5
R11804	D-5
R11805	D-5
R11807	D-5
R33501	D-3
R33502	D-3
R33503	D-3
R33504	D-3
R33505	D-3
R35001	A-6
R35002	A-6
R35003	A-6
R35004	A-6
R35008	A-8
R35010	A-8
R35011	A-8
R35012	A-8
R35013	A-8
R35014	A-8
R35015	B-8
R37001	B-4
R37002	B-4
R37003	B-4
R37004	D-3
R37005	D-2
R37006	D-2
R37007	D-2
R37008	D-2
R37009	D-2
R37010	D-2
R37012	D-2
R37014	D-3
R37015	D-3
R37016	D-3
R37502	D-2
R37503	D-2
R37504	D-3
R37505	D-3
R37508	D-2
R37509	D-2
R37510	D-2
R37511	D-2
R37513	D-2
R37514	D-2
R37515	D-2
R37521	D-2
R37708	B-3
R38001	C-1
R38002	C-1
R38004	C-1
R38005	B-2
R38006	B-1
R38007	B-1
R38009	B-2
R38011	B-1
R38012	B-2
R38014	B-2
R38015	B-1
R38016	B-1
R38017	B-1
R38018	B-1
R38020	B-1
R38024	B-1
R38025	B-1
R38026	B-1
R38027	B-1
R38028	C-2
R38029	C-2
R38030	A-9
R38031	A-9
R45001	E-2
R45002	E-3
R45008	D-1
R45009	D-1
R45014	A-7
R45015	A-7
R45016	D-3

Transformer	
T11101	C-8
T11301	C-7

Varistor	
VA11101	D-8

Main P.C.B.	
Integrated Circuit	
IC1511	D-3
IC1512	C-3
IC2001	B-2
IC2501	E-5
IC3001	C-5
IC3002	E-6
IC3701	E-8
IC3702	B-8
IC3703	C-8
IC3705	C-8
IC3707	C-8
IC4501	B-6
IC4801	F-7
IC4802	C-7
IC6001	C-3
IC6002	C-2
IC6301	E-6
IC7301	A-3
IC7402	A-8
IC7501	E-2
Transistor	
Q1501	F-4
Q1502	A-4
Q3001	C-5
Q3004	D-4
Q4001	D-6
Q4002	D-6
Q4082	A-2
Q4084	A-2
Q4501	A-7
Q4502	A-2
Q7401	B-8
Q7402	B-8
Q7501	F-1
Q7502	F-1
Transistor-resistor	
QR3701	C-8
QR4001	C-6
QR4082	A-2
QR4501	B-7
QR4801	F-8
QR4802	E-8
QR4803	F-8
QR4804	E-8
QR4805	D-8
QR4806	D-8
QR4807	B-7
QR4808	B-7
QR4809	D-8
QR4810	C-7
QR4813	E-8
QR4814	F-7
QR7401	B-8
QR7502	F-1
Test Point	
CL6003	C-4
CL6004	C-3
CL6005	C-3
CL6006	B-4
CL6007	C-4
CL6008	C-4
CL6009	C-3
CL6010	C-3
CL6011	C-3
CL6012	C-3
CL6013	B-3
CL6014	C-3
CL7501	D-3
CL7502	D-2
CL7524	B-2
TL1002	B-3
TL101	E-3
TL102	F-3
TL2015	C-4
TL23	D-3
TL24	C-3
TL2502	E-4
TL4501	B-5
TL4502	A-5
TL4507	B-5
TL4552	B-5
TL6002	B-3
TL6004	C-3
TL6010	C-3
TL7501	E-3
TL7502	B-2
TL7504	D-2
TL7507	E-3
TW2001	E-6
TW2002	E-6
TW3001	A-4
TW4501	C-6
TW4502	A-4
TW7501	C-2
Connector	
JK3902	D-8
JK3903	B-8
JK4801	E-8
P1531	F-6
P2501	E-5
P2571	E-5
P3001	C-5
P4001	B-5
P4002	D-5
P6001	F-3
P6002	F-5
P6003	F-6
P6004	F-7
P6005	F-7
PS6001	C-2
Diode	
D1501	D-4
D2001	C-4
D2002	C-4
D2502	F-5
D3001	E-6
D4501	B-5
D4502	A-2
D7401	A-7
D7502	B-2
D7503	B-2
D7504	B-2
D7505	B-2
D7506	B-2
D7507	D-2
DP7501	E-2
Crystal Osillator	
X3002	C-5
X6001	B-3
X7501	F-3
X7502	F-2
IC Protector	
IP6001	C-1
Coil	
L3002	D-6
L3003	D-5
L3004	C-4
L3005	C-4
L3006	C-5
L3701	E-8
L3702	F-7
L3703	C-8
L3704	F-7
L4081	A-3
L4501	B-5
L4502	B-5
L4503	B-7
L4801	F-8
L5001	C-5
L6101	B-3
L6102	B-3
L7301	A-3
L7402	F-8
LB3101	E-8
LB3102	E-8
LB3103	F-8
LB3104	D-8
LB3105	D-8
LB3106	C-8
LB3107	C-8
LB3108	B-8
LB3109	B-8
LB3110	B-8
LB3111	B-8
LB3112	B-8
LB3113	B-8
LB4101	D-8
LB4102	D-8
LB4103	D-8
LB4104	D-8
LB4105	C-8
LB4106	C-8
LB4107	C-8
LB4108	C-8
LB7403	A-8
LB7407	B-8
LB7413	A-8
Filter	
FL7301	A-5
Capacitor	
C2001	C-3
C2002	B-2
C2003	E-5
C2051	D-3
C2052	D-3
C2053	D-3
C2054	C-4
C2055	C-4
C2099	E-6
C2501	E-4
C2502	E-4
C2504	F-5
C2505	F-5
C2506	F-5
C2507	F-4
C2508	E-5
C2509	E-4
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C2513	E-5
C2515	F-4
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C2552	E-4
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C2571	E-6
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C3003	D-6
C3005	D-6
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C3007	D-6
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C3015	D-5
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C3019	D-5
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C7511	F-2
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C7520	E-3
Resistor	
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R1502	A-4
R1503	C-4
R1511	C-2
R1512	D-3
R1513	D-3
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R3006	E-6
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R6027	B-4
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R6102	B-3
R6103	B-4
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R7306	A-3
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R7310	A-5
R7311	A-5
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R7402	B-8
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R7411	A-8
R7415	B-8
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R7503	E-2
R7504	F-2
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R7513	F-2
R7514	F-2
R7515	E-2
R7516	E-2
R7517	E-3
R7518	E-2
R7519	F-2
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R7534	D-1
R7535	E-3
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R7538	E-2
R7539	D-2
R7540	E-2
R7541	D-2
R7542	D-2
R7543	D-1
R7544	D-1
R7546	D-2
R7548	E-2
Switch	
S1531	B-2
S1532	E-3
Transformer	
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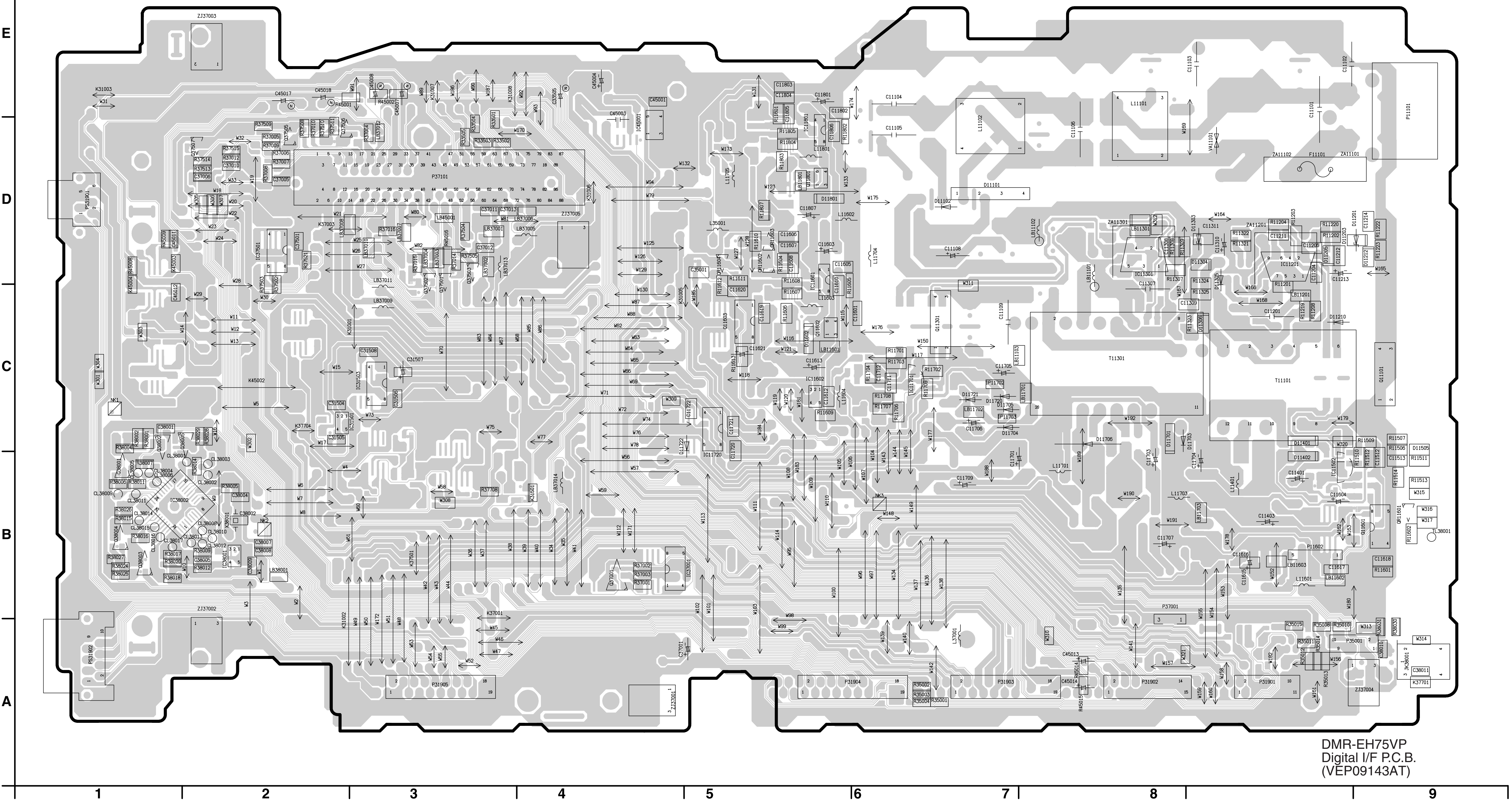
Tuner	
TU7401	A-8
Battery	
B7501	B-3

Digital I/F P.C.B.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P31903
P31902
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P35001
P37001
PS31901
PS31902
P11101
T11301
T11101
IC38002
IC11301
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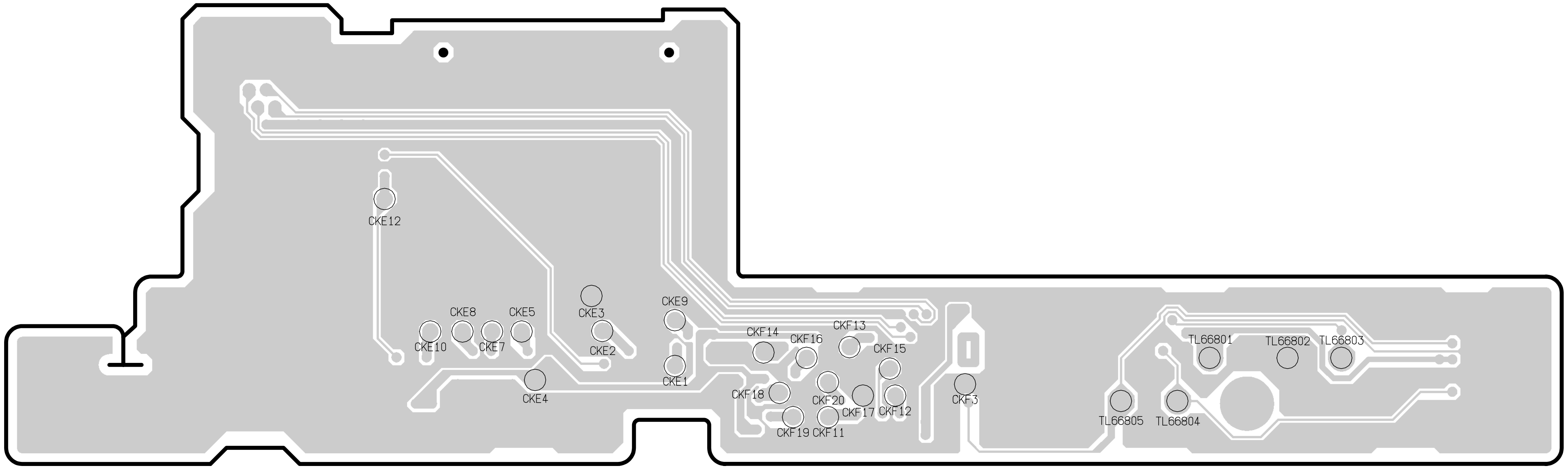
DMR-EH75VP
Digital I/F P.C.B.
(VEP09143AT)

SD Card / DV Jack P.C.B.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CKE4
CKF18
CKF20
CKF17
CKF12
CKF19
CKF11
CKF3
TL66801
TL66802
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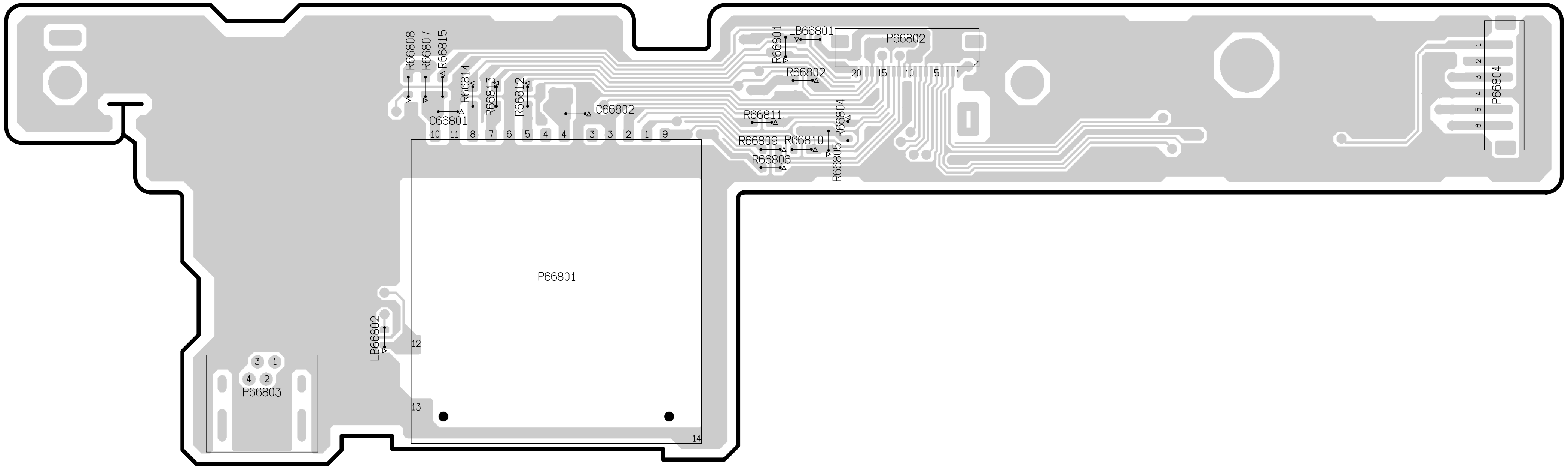
TL66804

(FOIL SIDE)

DMR-EH75VP
DV&SD Card P.C.B. (FOIL SIDE)
(VEP001P0A)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14
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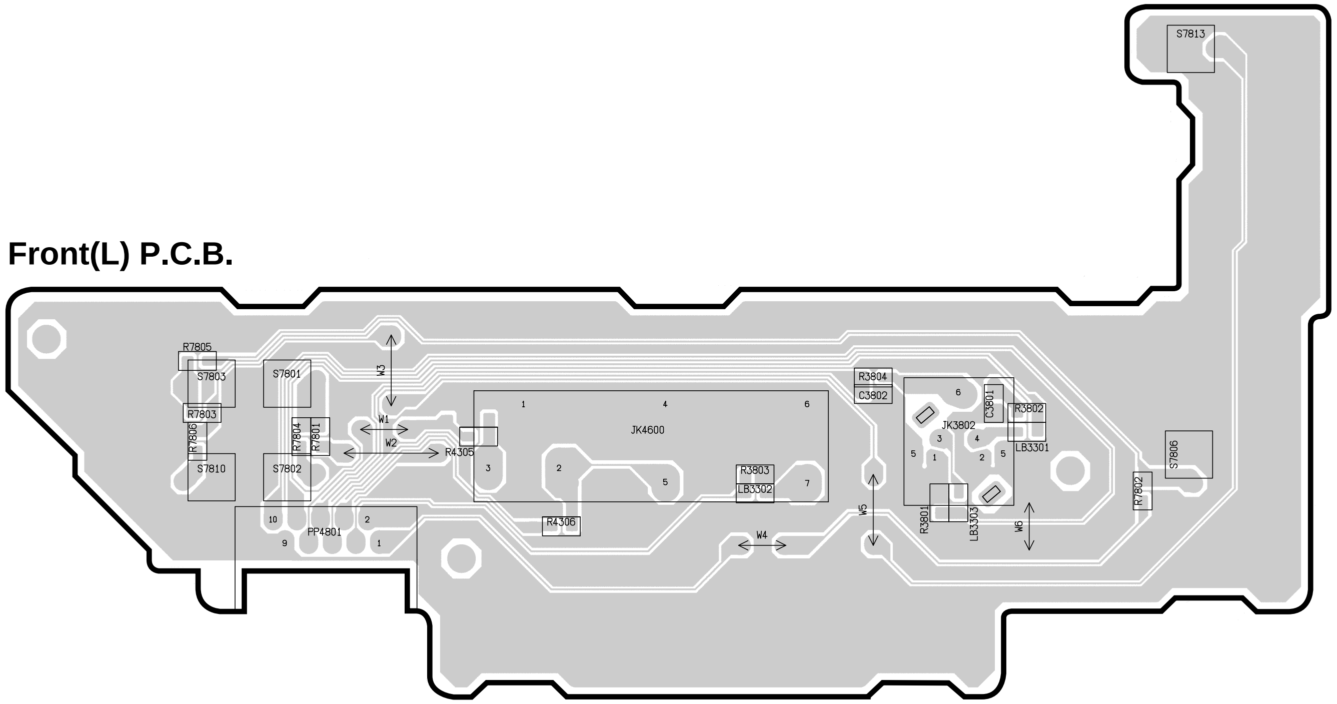
2
P66803

(COMPONENT SIDE)

DMR-EH75VP
SD Card / DV Jack P.C.B. (COMPONENT SIDE)
(VEP001P0A)

Front(L) P.C.B.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PP4801
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9
1
JK4600
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4
6
3
2
5
7
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W4
W5
R3804
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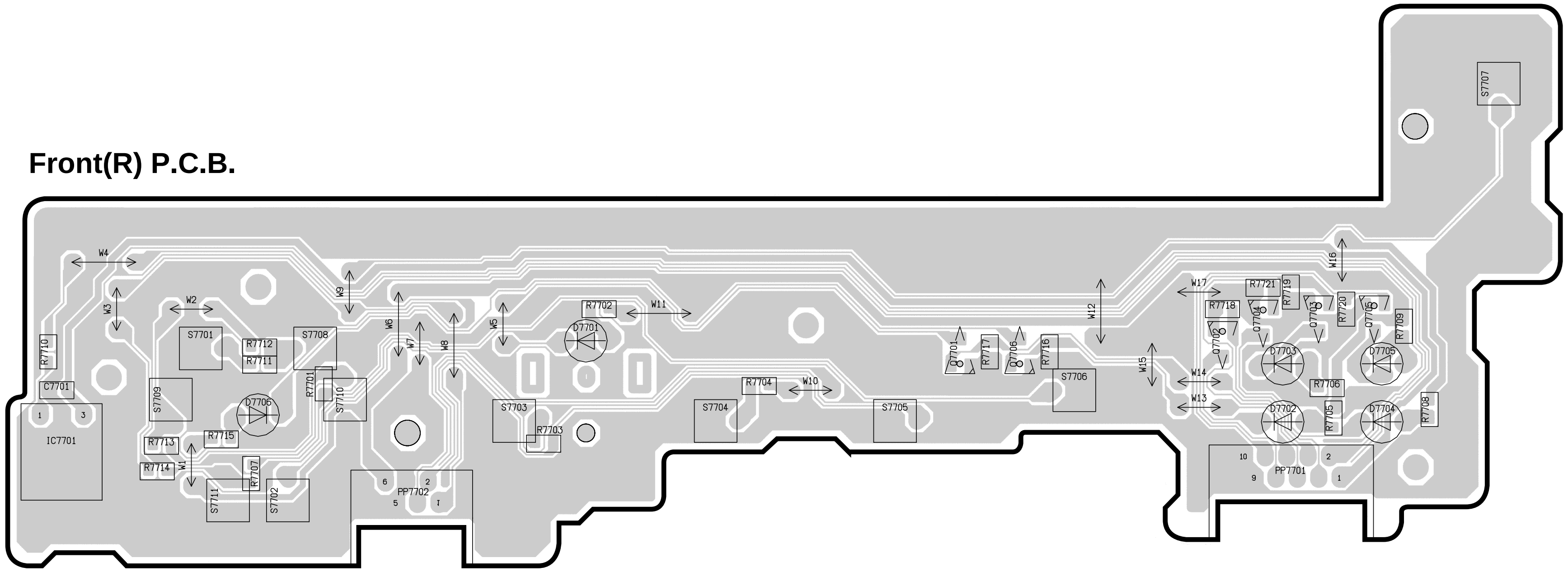
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R7705
R7708
PP7701
10
9
2
1

DMR-EH75VP
Front(L) P.C.B. (VEP40909A)
Front(R) P.C.B.(VEP07A92A)

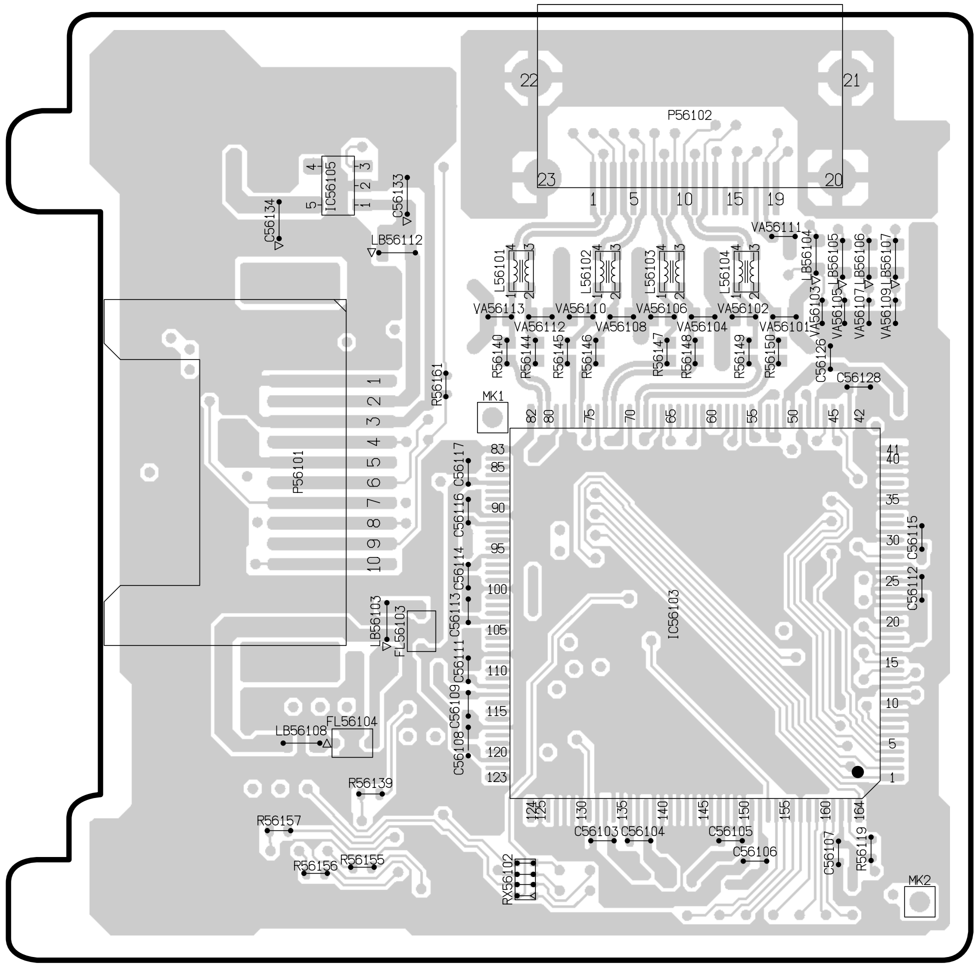
HDMI P.C.B.

D

C

B

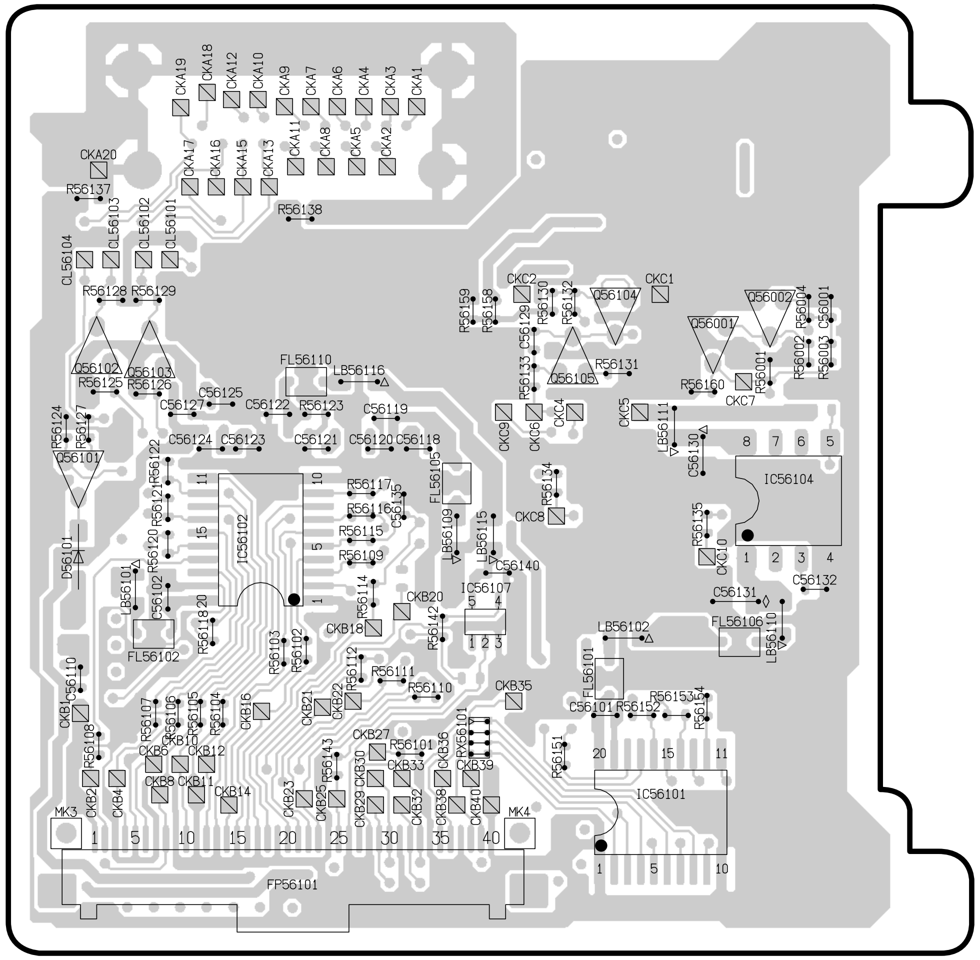
A



P56102
22
21
23
20
1
5
10
15
19
IC56105
C56133
C56134
LB56112
L56101
L56102
L56103
L56104
VA56111
VA56113
VA56112
VA56110
VA56108
VA56106
VA56104
VA56102
VA56101
R56140
R56144
R56145
R56146
R56147
R56148
R56149
R56150
C56126
C56128
R56161
MK1
P56101
IC56103
C56117
C56116
C56115
C56114
C56113
C56112
C56111
C56110
C56109
C56108
LB56103
FL56103
LB56108
FL56104
R56139
R56157
R56156
R56155
RX56102
C56103
C56104
C56105
C56106
C56107
R56119
MK2

(Component Side)

DMR-EH75VP
HDMI P.C.B. (VEP73137A)

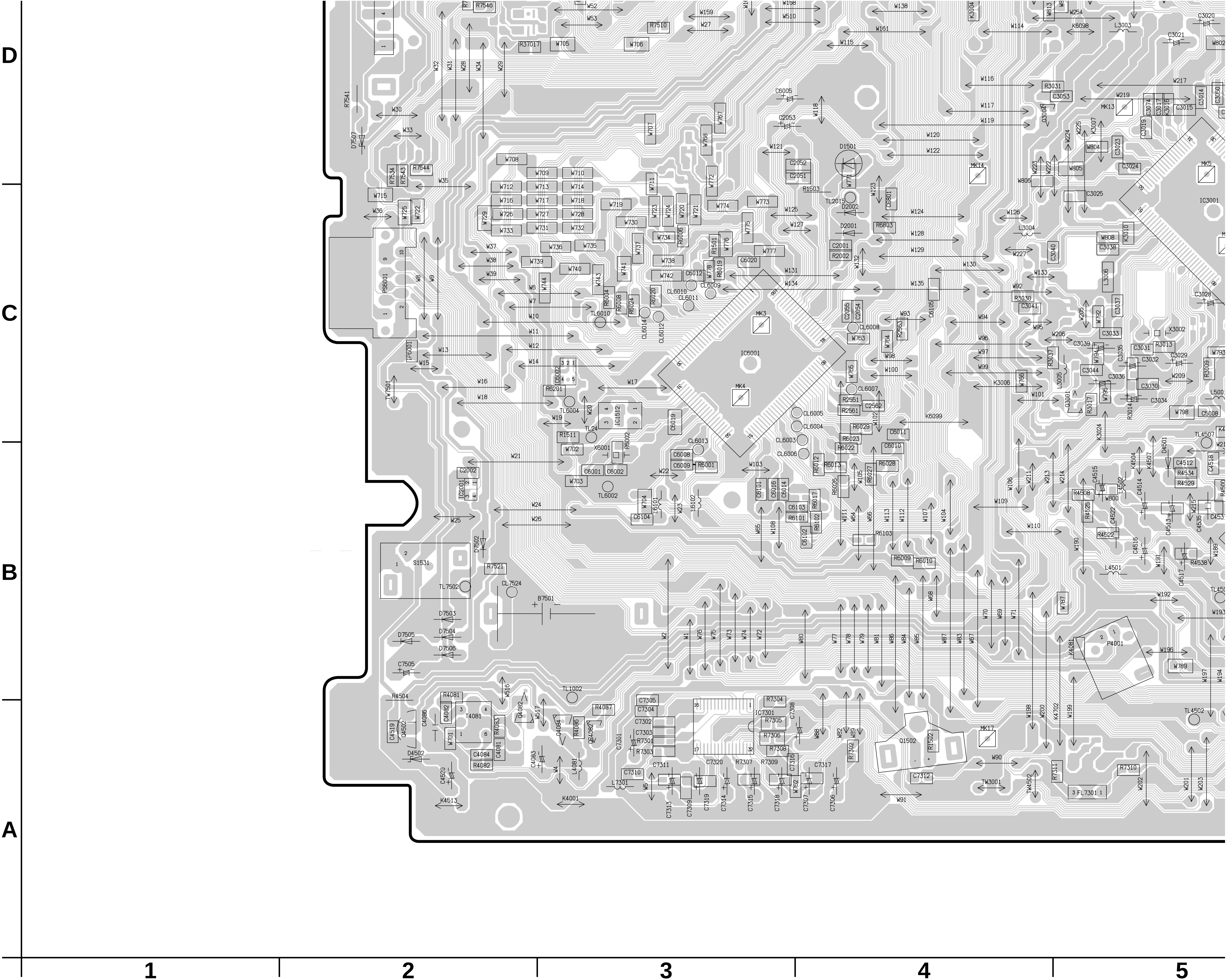


CKA19
CKA18
CKA12
CKA10
CKA9
CKA7
CKA6
CKA4
CKA3
CKA1
CKA20
CKA17
CKA16
CKA15
CKA13
CKA11
CKA8
CKA5
CKA2
R56137
R56138
CL56104
CL56103
CL56102
CL56101
R56128
R56129
Q56102
Q56103
R56125
R56126
R56124
R56127
Q56101
D56101
FL56110
LB56116
C56125
C56127
C56122
R56123
C56119
C56124
C56123
C56121
C56120
C56118
IC56102
R56117
R56116
R56115
R56109
R56114
FL56102
LB56101
C56102
IC56107
C56140
CKB20
CKB18
R56111
R56110
CKB35
CKC2
CKC1
Q56104
Q56105
R56131
Q56001
Q56002
R56160
CKC7
CKC9
CKC6
CKC4
CKC5
CKC8
LB56111
C56130
IC56104
C56131
C56132
FL56106
LB56102
LB56110
FL56101
C56101
R56152
R56153
R56154
R56151
IC56101
MK3
MK4
FP56101
CKB1
CKB2
CKB4
CKB8
CKB11
CKB12
CKB14
CKB16
CKB21
CKB22
CKB23
CKB25
CKB27
CKB29
CKB30
CKB32
CKB33
CKB36
CKB38
CKB39
CKB40
R56101
RX56101
1
5
10
15
20
25
30
35
40

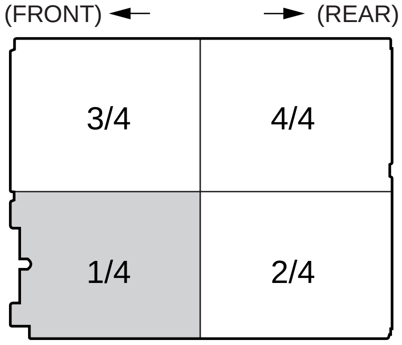
(Foil Side)

DMR-EH75VP
HDMI P.C.B. (VEP73137A)

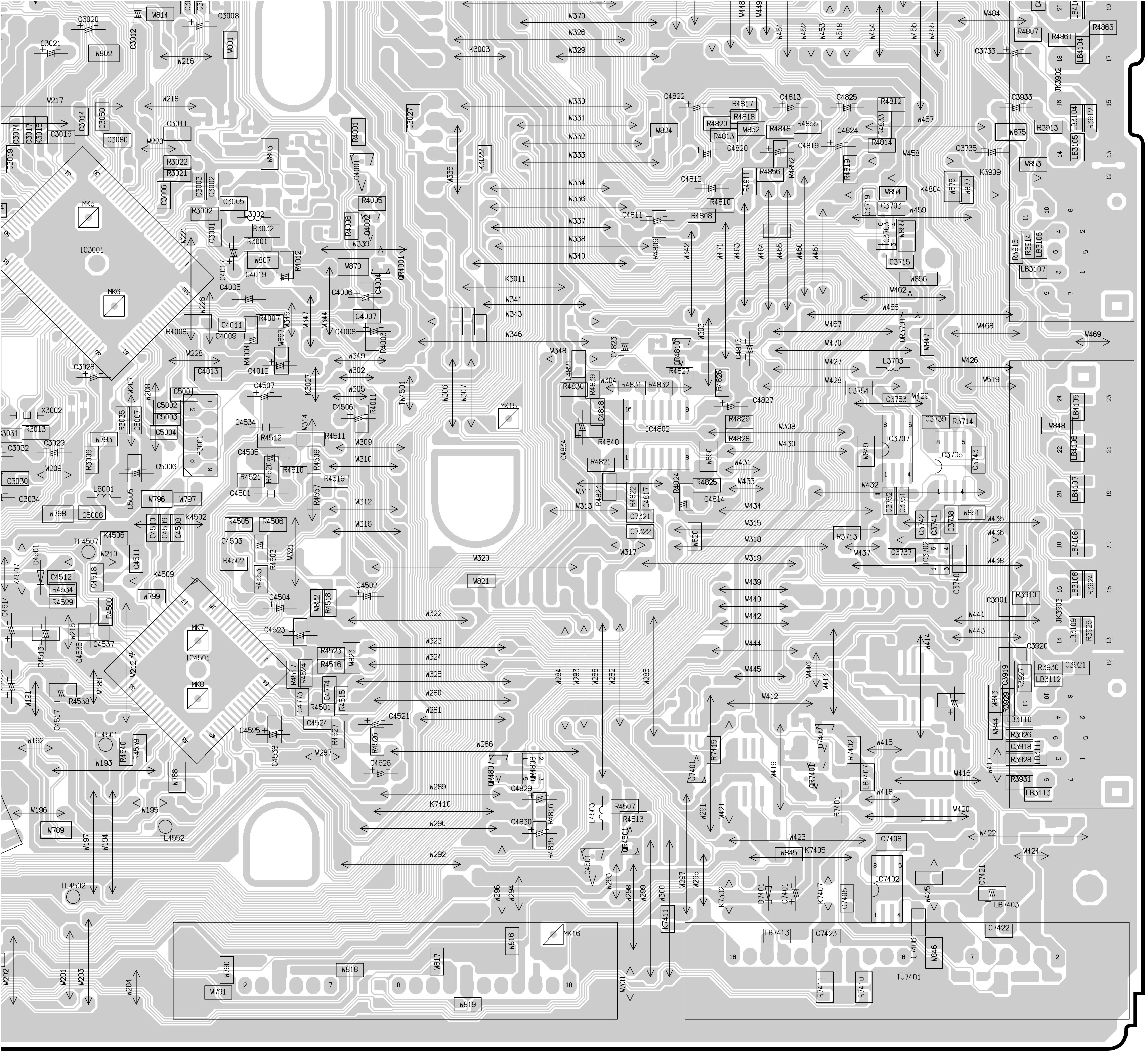
1 2 3 4 5 6 7 8 9


D
C
B
A
1
2
3
4
5
IC6001
IC3001
IC7301
IC1512
PS6001
S1531
P4001
Q1502
D1501
B7501
T4081
FL7301

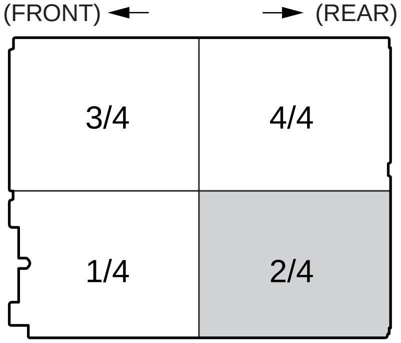
Location Map


(FRONT)
(REAR)
3/4
4/4
1/4
2/4

DMR-EH75VP
Main P.C.B. (VEP06G25BT)
(1/4 Section)



Location Map

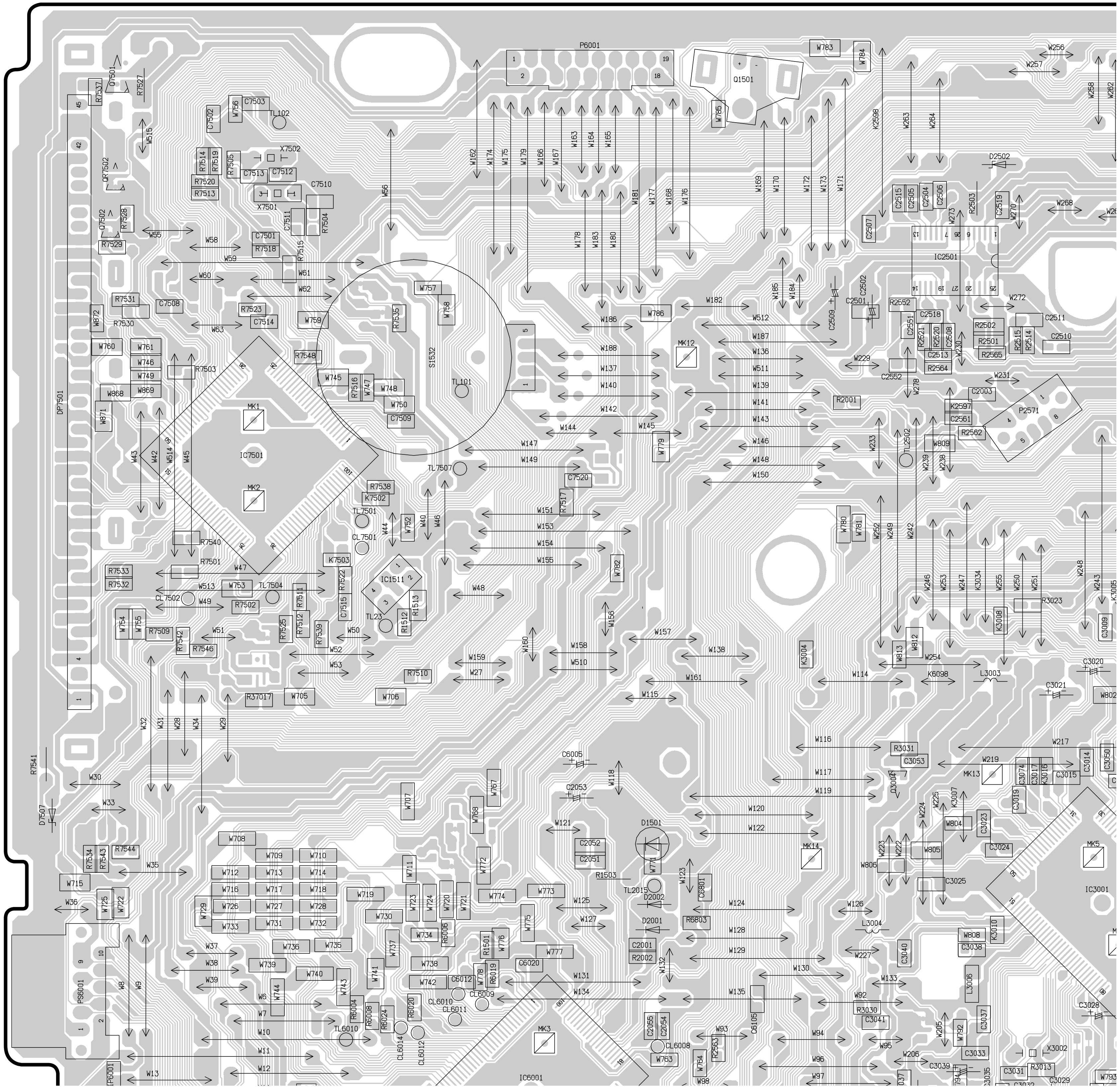

(FRONT)
(REAR)
3/4
4/4
1/4
2/4

DMR-EH75VP
Main P.C.B. (VEP06G25BT)
(2/4 Section)

5 6 7 8 9

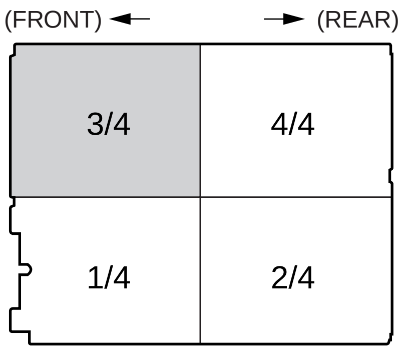
Main P.C.B.

F
E
D
C



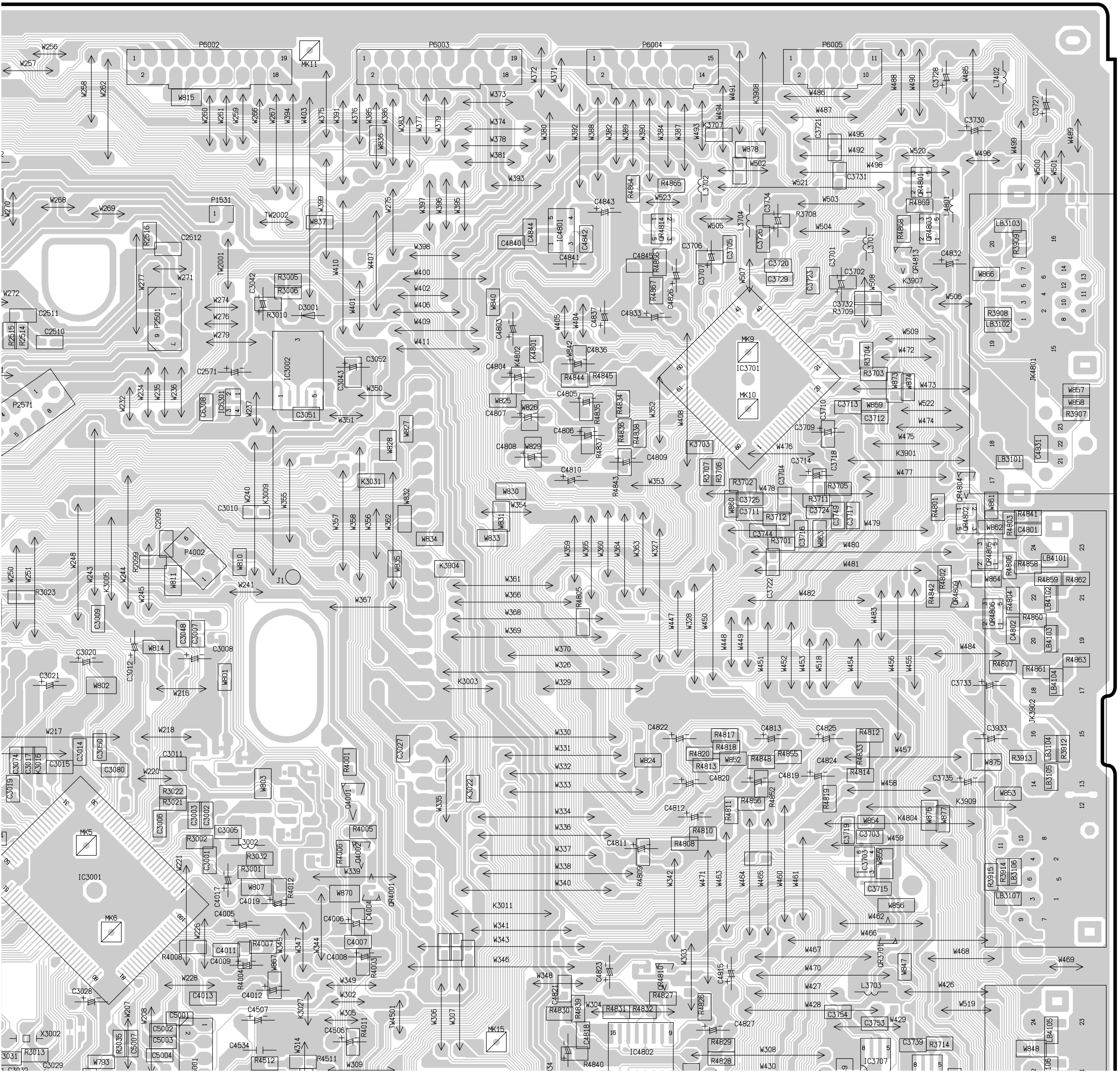
P6001
Q1501
IC2501
D2502
P2571
S1532
TL101
IC7501
MK1
MK2
X7501
X7502
DP7501
IC1511
MK12
MK13
MK14
MK3
MK5
D1501
IC6001
IC3001
PS6001
L3003
L3004

Location Map

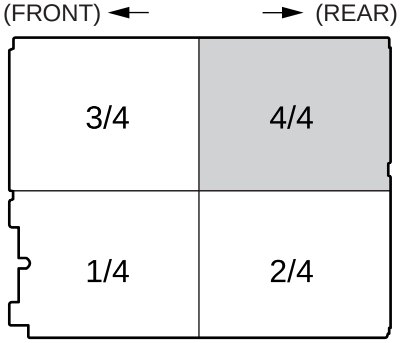


(FRONT)
(REAR)
3/4
4/4
1/4
2/4

DMR-EH75VP
Main P.C.B. (VEP06G25BT)
(3/4 Section)



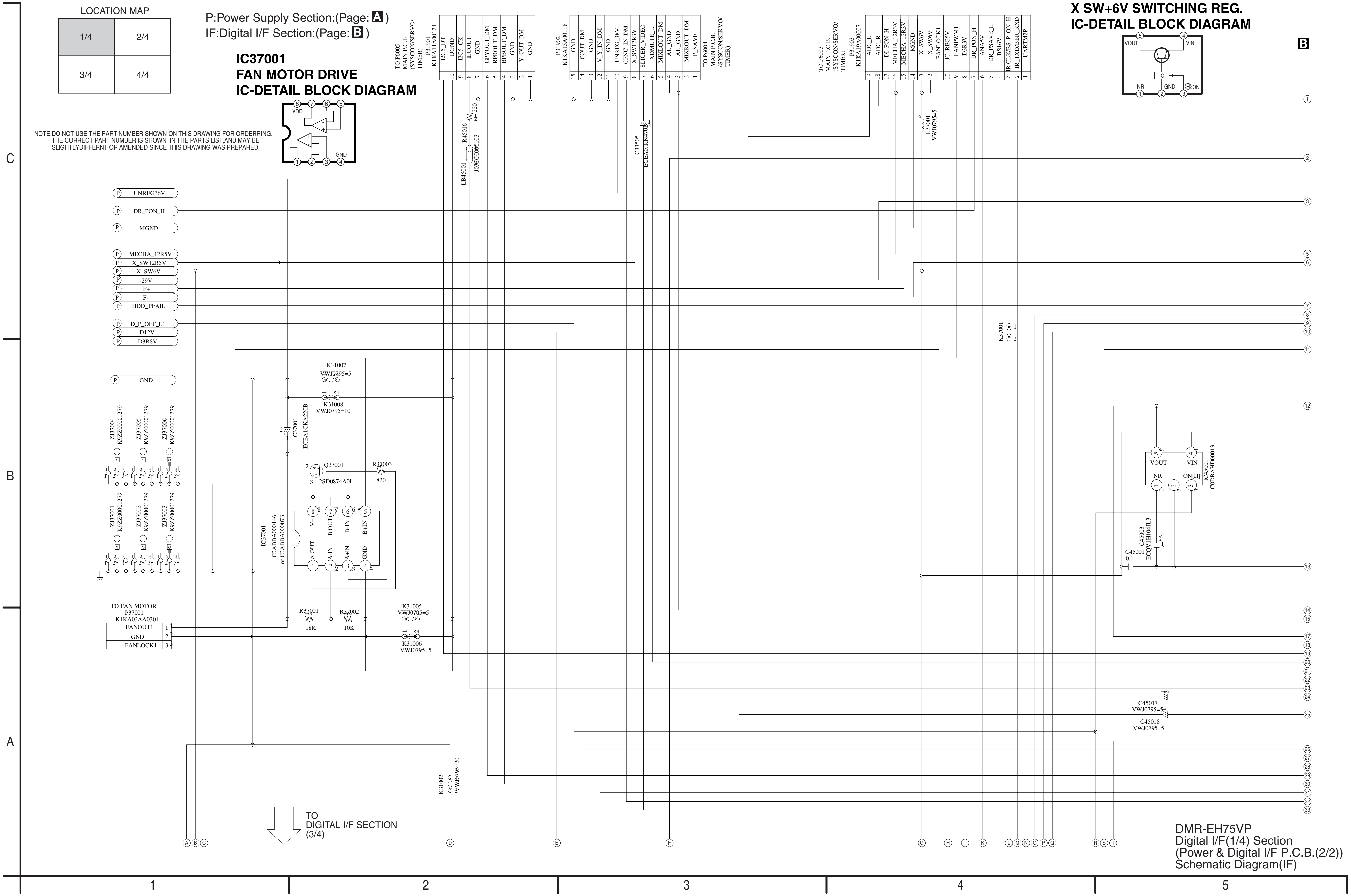
Location Map


(FRONT)
(REAR)
3/4
4/4
1/4
2/4

DMR-EH75VP
Main P.C.B. (VEP06G25BT)
(4/4 Section)

P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

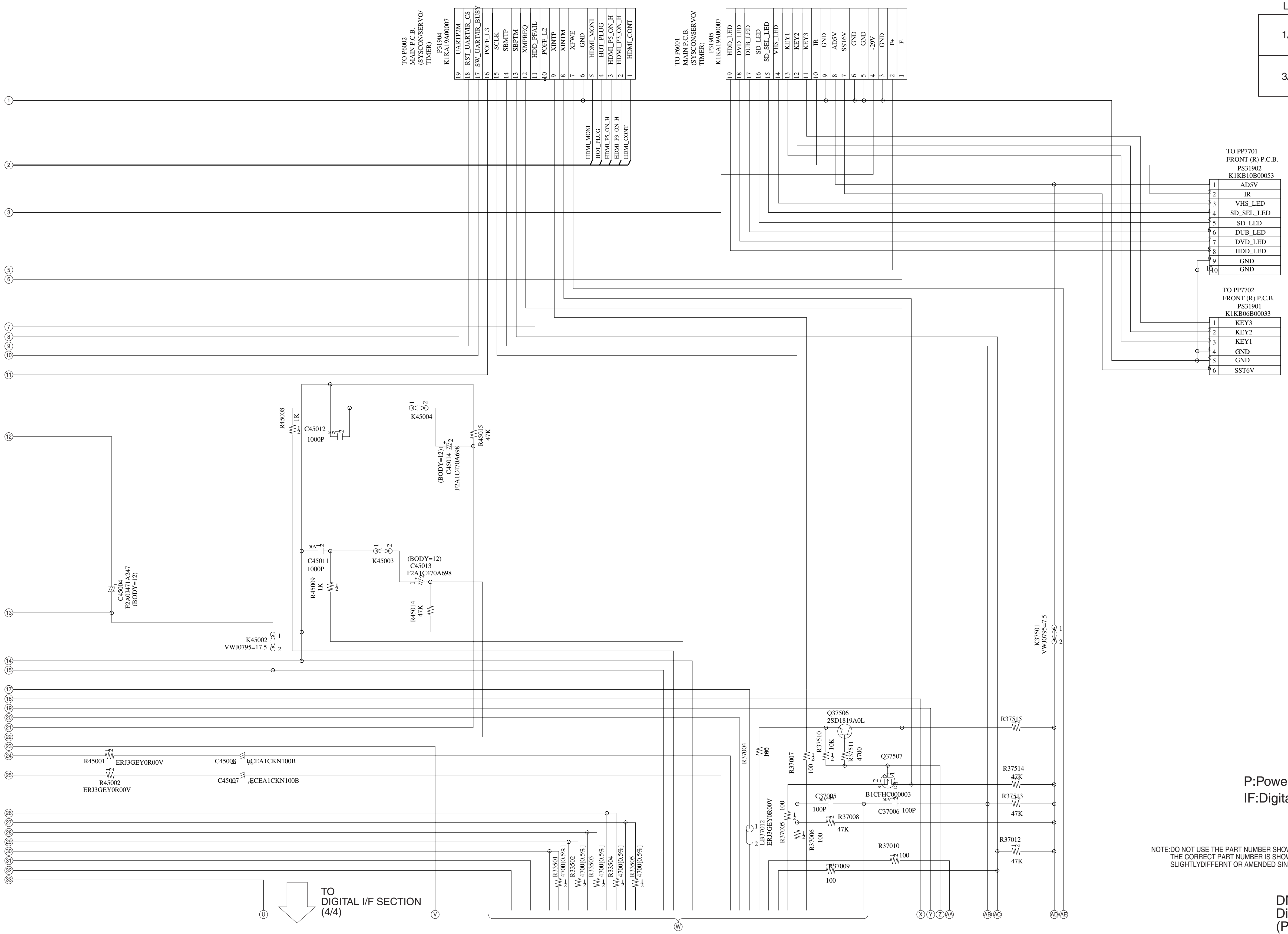

LOCATION MAP
1/4
2/4
3/4
4/4
IC37001
FAN MOTOR DRIVE
IC-DETAIL BLOCK DIAGRAM
VDD
GND
IC45001
X SW+6V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM
VOUT
VIN
IC
NR
GND
H ON
B
TO P6005
MAIN P.C.B.
(SYSCON/SERVO/
TIMER)
P31901
K1KA11A00124
I2C5_DT
DGND
I2C5_CK
IECOUT
GND
GPYOUT_DM
RPROUT_DM
BPBOUT_DM
GND
Y_OUT_DM
GND
P31902
K1KA15A00118
GND
COUT_DM
GND
V_Y_IN_DM
GND
UNREG_38V
CPNC_IN_DM
X_SW12R3V
SLICER_VIDEO
XDMUTE_L
MIXLOUT_DM
AU_GND
AU_GND
MIXROUT_DM
P_SAVE
TO P6004
MAIN P.C.B.
(SYSCON/SERVO/
TIMER)
TO P6003
MAIN P.C.B.
(SYSCON/SERVO/
TIMER)
P31903
K1KA19A00007
ADC_L
ADC_R
DI_PON_H
MECHA_12R3V
MECHA_12R3V
MGND
X_SW6V
X_SW6V
FANLOCK1
JC_REG5V
FANPWM1
D3R3V
DR_PON_H
ANA5V
DR_PSAVE_L
BS16V
IR CLK/BS_P_ON_H
IR_TXD/BBR_RXD
UARTM2P
R45016
220
LB45001
J0JCC0000103
C33505
ECEA0JKN470B
L37001
VWJ0795=5
UNREG36V
DR_PON_H
MGND
MECHA_12R5V
X_SW12R5V
X_SW6V
-29V
F+
F-
HDD_PFAIL
D_P_OFF_L1
D12V
D3R8V
GND
K31007
VWJ0795=5
K31008
VWJ0795=10
C37001
ECEA1CKA220B
Q37001
2SD0874A0L
R37003
820
IC37001
C0ABBA000146
or C0ABBA000073
V+
B OUT
B-IN
B+IN
A OUT
A-IN
A+IN
GND
ZJ37004
K9ZZ00001279
ZJ37005
K9ZZ00001279
ZJ37006
K9ZZ00001279
ZJ37001
K9ZZ00001279
ZJ37002
K9ZZ00001279
ZJ37003
K9ZZ00001279
TO FAN MOTOR
P37001
K1KA03AA0301
FANOUT1
GND
FANLOCK1
R37001
18K
R37002
10K
K31005
VWJ0795=5
K31006
VWJ0795=5
K31002
VWJ0795=20
K37001
IC45001
C0DBAHD00013
VOUT
VIN
NR
ON[H]
C45003
ECQV1H104JL3
C45001
0.1
C45017
VWJ0795=5
C45018
VWJ0795=5
TO
DIGITAL I/F SECTION
(3/4)
Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ Ⓗ Ⓘ Ⓚ Ⓛ Ⓜ Ⓝ Ⓞ Ⓟ Ⓠ Ⓡ Ⓢ Ⓣ
① ② ③ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝
A
B
C
1
2
3
4
5

DMR-EH75VP
Digital I/F(1/4) Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram(IF)

LOCATION MAP

1/4	2/4
3/4	4/4

B


TO P6002
MAIN P.C.B.
(SYSCON/SERVO/
TIMER)
P31904
K1KA19A00007
19 UARTP2M
18 RST_UART/IR_CS
17 SW_UART/IR_BUSY
16 POFF_L3
15 SCLK
14 SBMTP
13 SBPTM
12 XMPREQ
11 HDD_PFAIL
10 POFF_L2
9 XINTP
8 XINTM
7 XFWE
6 GND
5 HDMI_MONI
4 HOT_PLUG
3 HDMI_P5_ON_H
2 HDMI_P3_ON_H
1 HDMI_CONT
HDMI_MONI
HOT_PLUG
HDMI_P5_ON_H
HDMI_P3_ON_H
HDMI_CONT
TO P6001
MAIN P.C.B.
(SYSCON/SERVO/
TIMER)
P31905
K1KA19A00007
19 HDD_LED
18 DVD_LED
17 DUB_LED
16 SD_LED
15 SD_SEL_LED
14 VHS_LED
13 KEY1
12 KEY2
11 KEY3
10 IR
9 GND
8 AD5V
7 SST6V
6 GND
5 GND
4 -29V
3 GND
2 F+
1 F-
TO PP7701
FRONT (R) P.C.B.
PS31902
K1KB10B00053
1 AD5V
2 IR
3 VHS_LED
4 SD_SEL_LED
5 SD_LED
6 DUB_LED
7 DVD_LED
8 HDD_LED
9 GND
10 GND
TO PP7702
FRONT (R) P.C.B.
PS31901
K1KB06B00033
1 KEY3
2 KEY2
3 KEY1
4 GND
5 GND
6 SST6V
① ② ③ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝
R45008 1K
C45012 50V 1000P
K45004
R45015 47K
(BODY=12) C45014 F2A1C470A698
C45011 50V 1000P
K45003
(BODY=12) C45013 F2A1C470A698
R45009 1K
R45014 47K
C45004 F2A0J471A247 (BODY=12)
K45002 VWJ0795=17.5
K37501 VWJ0795=7.5
R45001 ERJ3GEY0R00V
R45002 ERJ3GEY0R00V
C45008 ECEA1CKN100B
C45007 ECEA1CKN100B
R33501 4700[0.5%]
R33502 4700[0.5%]
R33503 4700[0.5%]
R33504 4700[0.5%]
R33505 4700[0.5%]
Q37506 2SD1819A0L
R37004 100
R37007 100
R37510 10K
R37511 4700
Q37507 B1CFHC000003
G S D
C37005 50V 100P
C37006 50V 100P
R37008 47K
LB37012 ERJ3GEY0R00V
R37005 100
R37006 100
R37010 100
R37009 100
R37515
R37514 47K
R37513 47K
R37012 47K
TO
DIGITAL I/F SECTION
(4/4)
Ⓤ Ⓥ Ⓦ Ⓧ Ⓨ Ⓩ AA AB AC AD AE
6 7 8 9 10

P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
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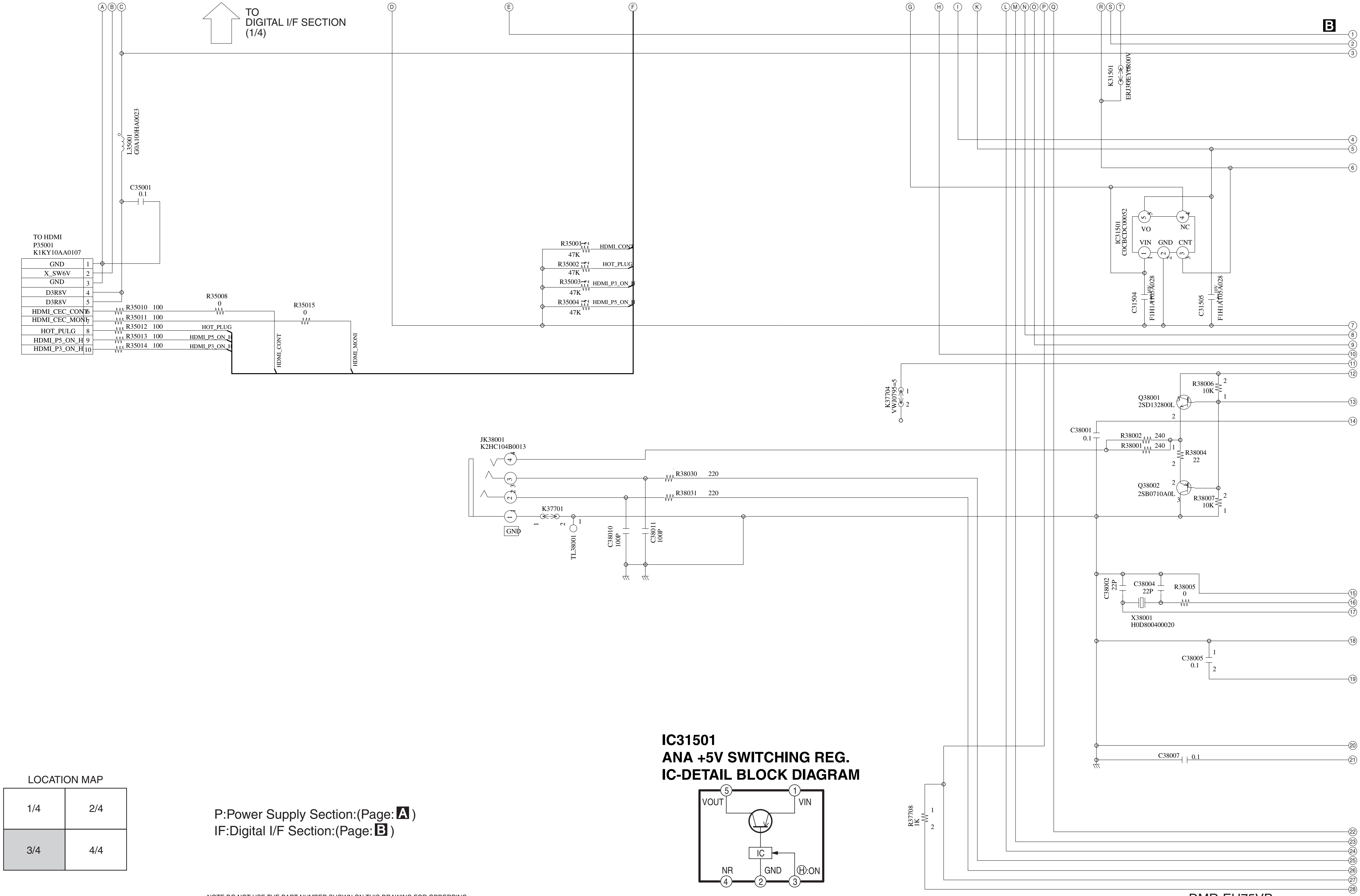
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH75VP
Digital I/F(2/4) Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram(IF)


TO DIGITAL I/F SECTION (1/4)
A B C D E F G H I K L M N O P Q R S T
B
TO HDMI
P35001
K1KY10AA0107
GND 1
X_SW6V 2
GND 3
D3R8V 4
D3R8V 5
HDMI_CEC_CONT 6
HDMI_CEC_MONI 7
HOT_PULG 8
HDMI_P5_ON_H 9
HDMI_P3_ON_H 10
L35001
G0A100HA0023
C35001
0.1
R35008
0
R35015
0
R35010 100
R35011 100
R35012 100
R35013 100
R35014 100
HOT_PLUG
HDMI_P5_ON_H
HDMI_P3_ON_H
HDMI_CONT
HDMI_MONI
R35001 47K
R35002 47K
R35003 47K
R35004 47K
HDMI_CONT
HOT_PLUG
HDMI_P3_ON_H
HDMI_P5_ON_H
K31501
ERJ3GEY0R00V
IC31501
C0CBCDC00052
VO
NC
VIN
GND
CNT
C31504
F1H1A105A028
C31505
F1H1A105A028
K37704
VWJ0795=5
R38006
10K
Q38001
2SD132800L
C38001
0.1
R38002 240
R38001 240
R38004
22
Q38002
2SB0710A0L
R38007
10K
JK38001
K2HC104B0013
R38030 220
R38031 220
K37701
TL38001
GND
C38010
100P
C38011
100P
C38002
22P
C38004
22P
R38005
0
X38001
H0D800400020
C38005
0.1
C38007 0.1
R37708
1K
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
VOUT
VIN
IC
NR
GND
H:ON
C
B
A
1
2
3
4
5

IC31501
ANA +5V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM

LOCATION MAP

1/4	2/4
3/4	4/4

P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

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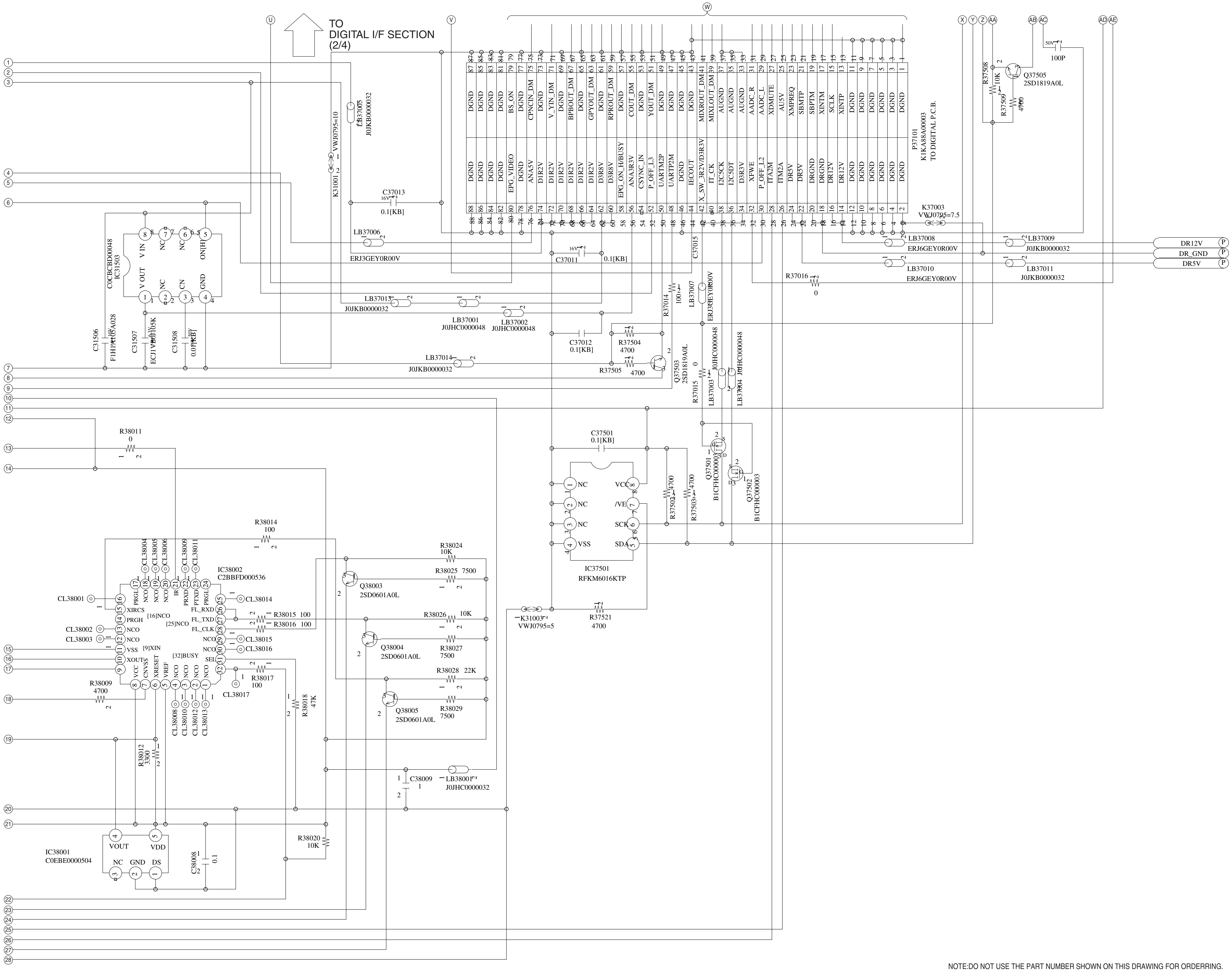
DMR-EH75VP
Digital I/F(3/4) Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram(IF)


TO
DIGITAL I/F SECTION
(2/4)
P37101
K1KA88A00003
TO DIGITAL P.C.B.
IC31503
C0CBCBD00048
IC37501
RFKM6016KTP
IC38002
C2BBFD000536
IC38001
C0EBE0000504
Q37505
2SD1819A0L
Q37503
2SD1819A0L
Q37501
B1CFHC000003
Q37502
B1CFHC000003
Q38003
2SD0601A0L
Q38004
2SD0601A0L
Q38005
2SD0601A0L
K31001
VWJ0795=10
K37003
VWJ0795=7.5
K31003
VWJ0795=5
LB37005
J0JKB0000032
LB37006
ERJ3GEY0R00V
LB37008
ERJ6GEY0R00V
LB37009
J0JKB0000032
LB37010
ERJ6GEY0R00V
LB37011
J0JKB0000032
LB37013
J0JKB0000032
LB37001
J0JHC0000048
LB37002
J0JHC0000048
LB37014
J0JKB0000032
LB37007
ERJ3GEY0R00V
LB37003
J0JHC0000048
LB37004
J0JHC0000048
LB38001
J0JHC0000032
C37013
0.1[KB]
C37011
0.1[KB]
C37012
0.1[KB]
C37501
0.1[KB]
C38009
C38008
0.1
100P
R37014
100
R37016
0
R37015
0
R37504
4700
R37505
4700
R37508
10K
R37509
4700
R37502
4700
R37503
4700
R37521
4700
R38011
0
R38014
100
R38024
10K
R38025
7500
R38026
10K
R38027
7500
R38028
22K
R38029
7500
R38015
100
R38016
100
R38017
100
R38018
47K
R38009
4700
R38012
3300
R38020
10K
DR12V
DR_GND
DR5V
NC
VCC
/VE
SCK
SDA
VSS
V IN
V OUT
GND
CN
ON[H]
VOUT
VDD
NC
GND
DS
XIRCS
PRGH
XOUT
VCC
CNVSS
XRESET
VREF
FL_RXD
FL_TXD
FL_CLK
SEL
[16]NCO
[25]NCO
[9]XIN
[32]BUSY
CL38001
CL38002
CL38003
CL38004
CL38005
CL38006
CL38008
CL38009
CL38010
CL38011
CL38012
CL38013
CL38014
CL38015
CL38016
CL38017
DGND
BS_ON
CPNCIN_DM
ANA5V
V_YIN_DM
BPBOUT_DM
GPYOUT_DM
RPROUT_DM
COUT_DM
YOUT_DM
MIXROUT_DM
MIXLOUT_DM
AUGND
AADC_R
AADC_L
XDMUTE
AU5V
XMPREQ
SBMTP
SBPTM
XINTM
SCLK
XINTP
EPG_VIDEO
D1R2V
D3R8V
EPG_ON_H/BUSY
ANA3R3V
CSYNC_IN
P_OFF_L3
UARTM2P
UARTP2M
IECOUT
X_SW_3R2V/D3R3V
IT_CK
I2CSCK
I2CSDT
D3R3V
XFWE
P_OFF_L2
ITA2M
ITM2A
DR5V
DRGND
DR12V
U
V
W
X
Y
Z
AA
AB
AC
AD
AE
P

P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

LOCATION MAP

1/4	2/4
3/4	4/4

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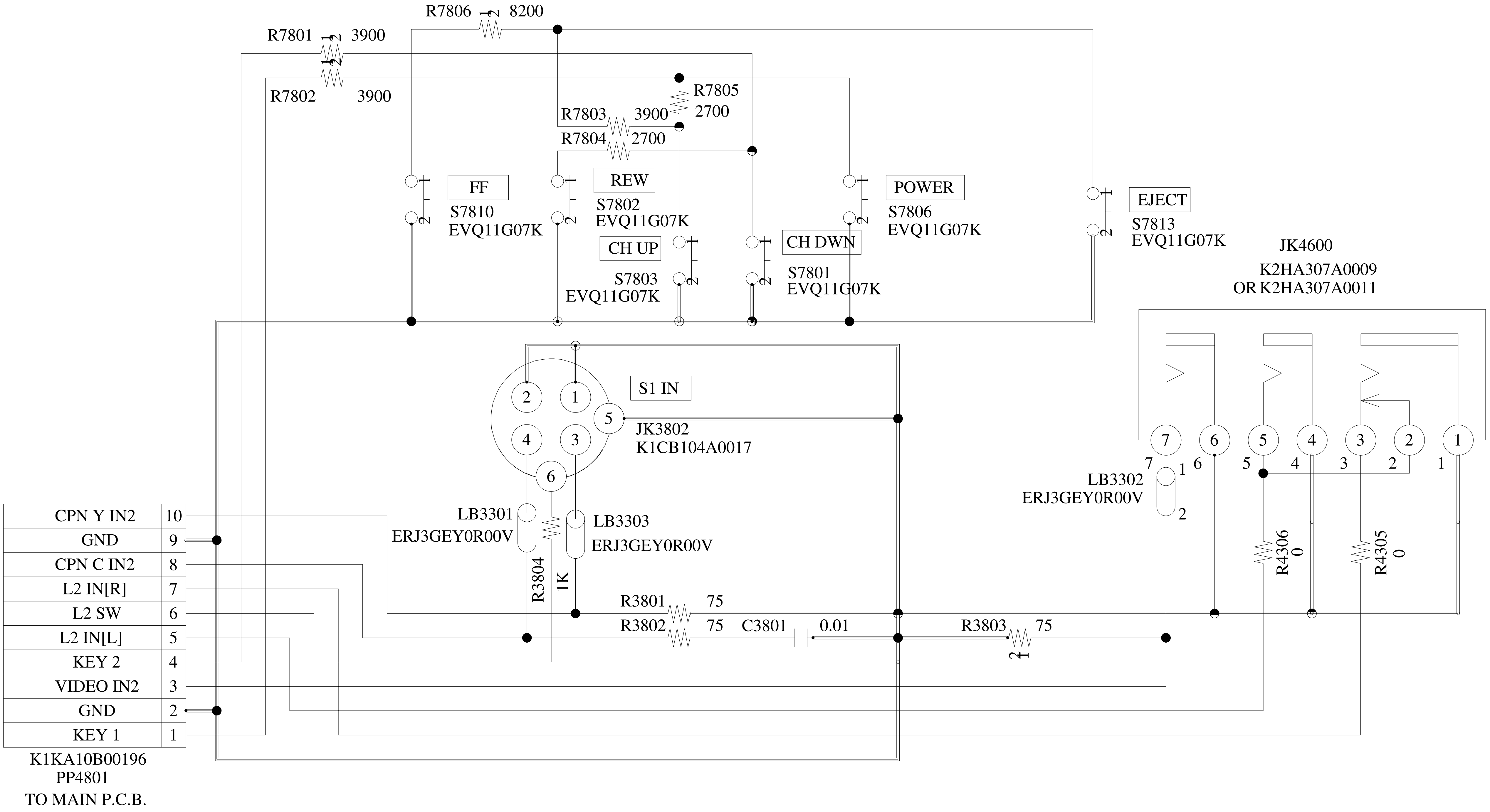
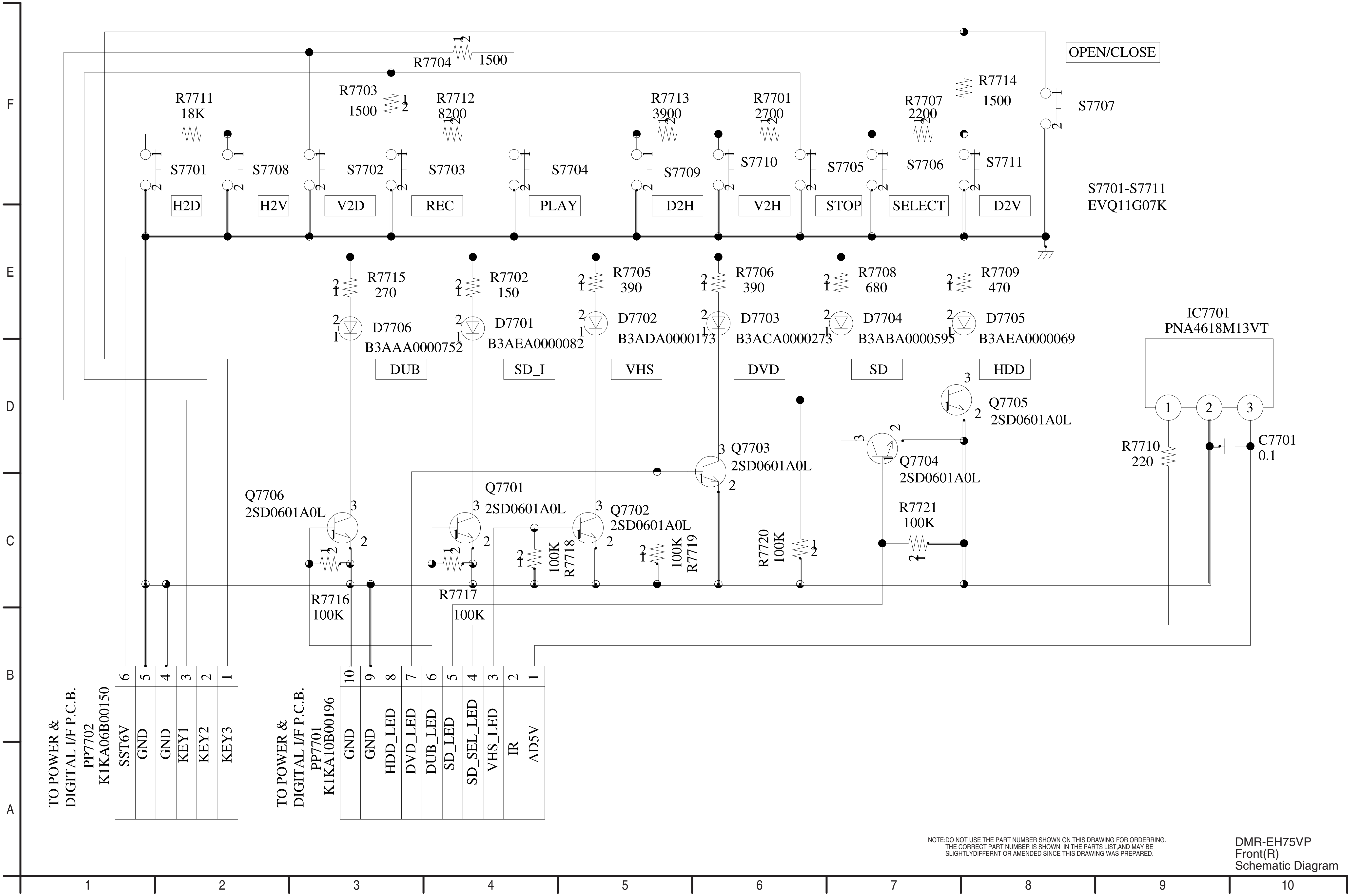
DMR-EH75VP
Digital I/F(4/4) Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram(IF)

A


R7806 8200
R7801 3900
R7802 3900
R7805 2700
R7803 3900
R7804 2700
FF
S7810
EVQ11G07K
REW
S7802
EVQ11G07K
CH UP
S7803
EVQ11G07K
CH DWN
S7801
EVQ11G07K
POWER
S7806
EVQ11G07K
EJECT
S7813
EVQ11G07K
JK4600
K2HA307A0009
OR K2HA307A0011
S1 IN
JK3802
K1CB104A0017
LB3301
ERJ3GEY0R00V
LB3303
ERJ3GEY0R00V
LB3302
ERJ3GEY0R00V
R3804
1K
R3801 75
R3802 75
C3801 0.01
R3803 75
R4306 0
R4305 0
CPN Y IN2 10
GND 9
CPN C IN2 8
L2 IN[R] 7
L2 SW 6
L2 IN[L] 5
KEY 2 4
VIDEO IN2 3
GND 2
KEY 1 1
K1KA10B00196
PP4801
TO MAIN P.C.B.

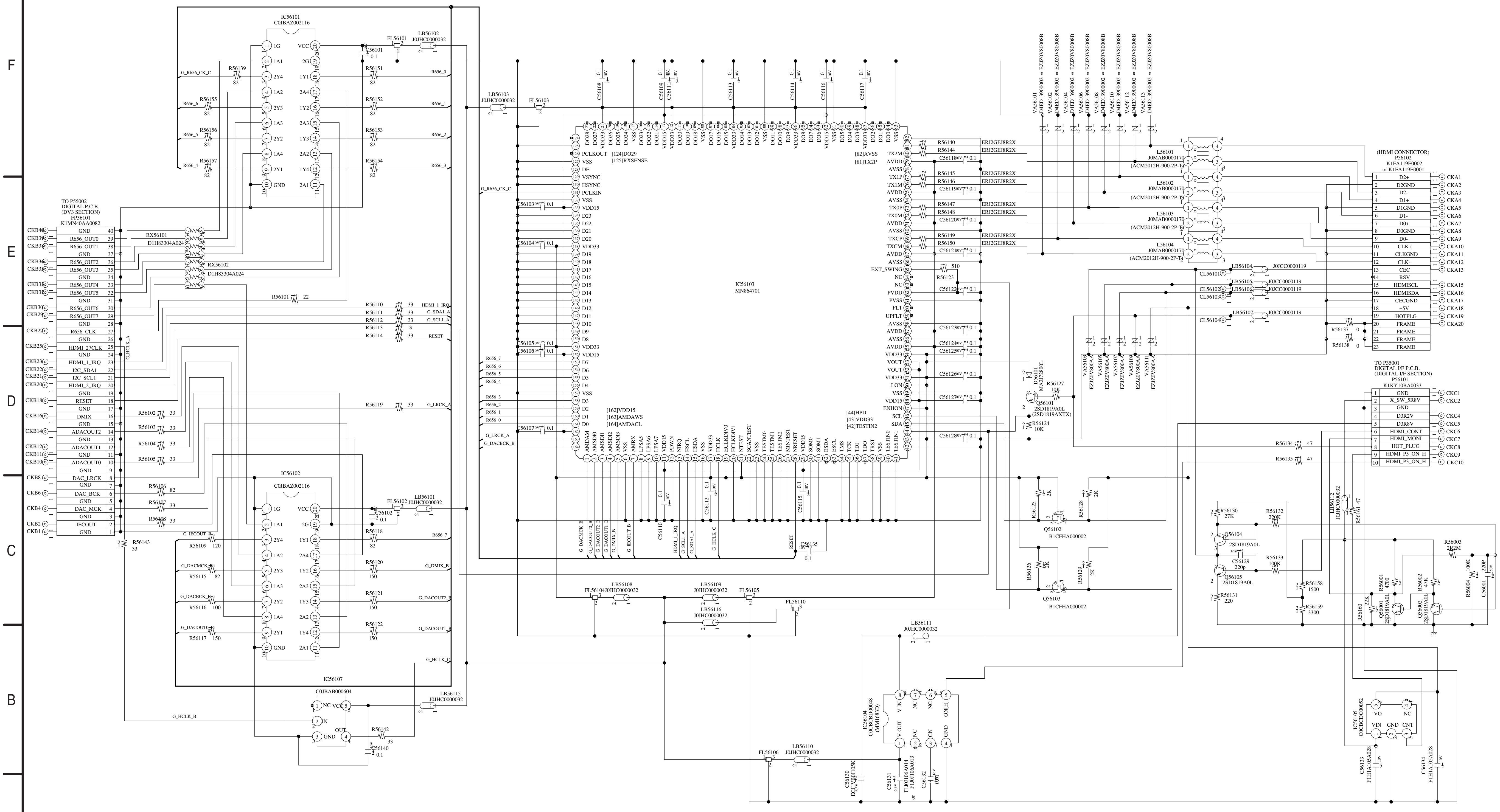
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH75VP
Front (L)
Schematic Diagram


OPEN/CLOSE
R7704 1500
R7703 1500
R7712 8200
R7711 18K
R7713 3900
R7701 2700
R7707 2200
R7714 1500
S7707
S7701
S7708
S7702
S7703
S7704
S7709
S7710
S7705
S7706
S7711
H2D
H2V
V2D
REC
PLAY
D2H
V2H
STOP
SELECT
D2V
S7701-S7711
EVQ11G07K
R7715 270
R7702 150
R7705 390
R7706 390
R7708 680
R7709 470
D7706 B3AAA0000752
D7701 B3AEA0000082
D7702 B3ADA0000173
D7703 B3ACA0000273
D7704 B3ABA0000595
D7705 B3AEA0000069
DUB
SD_I
VHS
DVD
SD
HDD
IC7701
PNA4618M13VT
Q7705 2SD0601A0L
Q7704 2SD0601A0L
Q7703 2SD0601A0L
Q7706 2SD0601A0L
Q7701 2SD0601A0L
Q7702 2SD0601A0L
R7710 220
C7701 0.1
R7721 100K
R7720 100K
R7719 100K
R7718 100K
R7716 100K
R7717 100K
TO POWER & DIGITAL I/F P.C.B.
PP7702
K1KA06B00150
6 SST6V
5 GND
4 GND
3 KEY1
2 KEY2
1 KEY3
TO POWER & DIGITAL I/F P.C.B.
PP7701
K1KA10B00196
10 GND
9 GND
8 HDD_LED
7 DVD_LED
6 DUB_LED
5 SD_LED
4 SD_SEL_LED
3 VHS_LED
2 IR
1 AD5V
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
10

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH75VP
Front(R)
Schematic Diagram

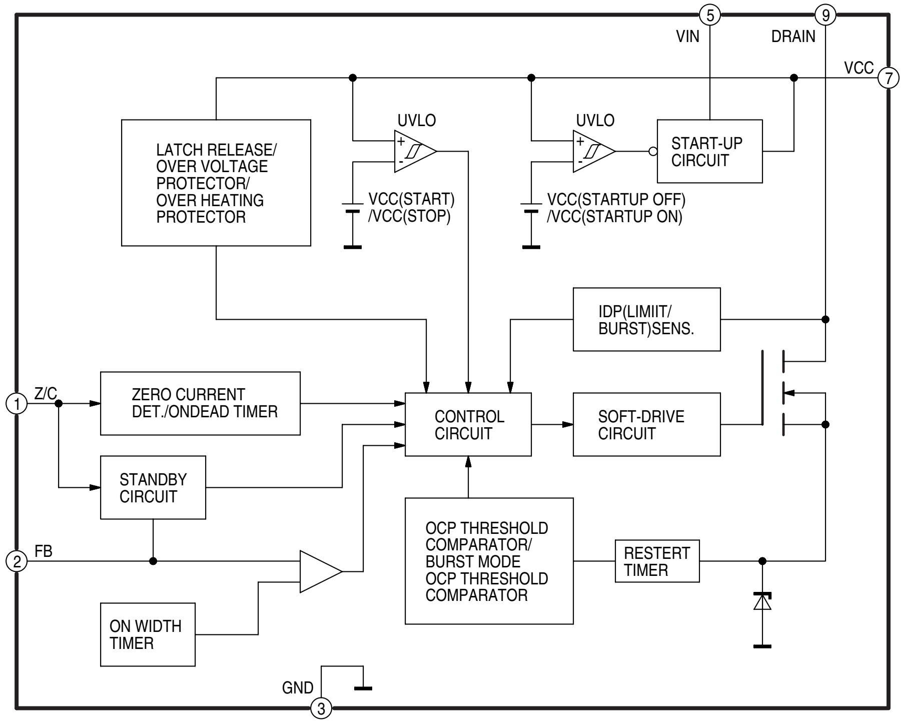


IC56101
C0JBAZ002116
IC56102
C0JBAZ002116
IC56103
MN864701
IC56107
C0JBAB000604
IC56104
C0CBCBD00048
(MM1683D)
IC56105
C0CBCDC00052
TO P55002
DIGITAL P.C.B.
(DV3 SECTION)
FP56101
K1MN40AA0082
(HDMI CONNECTOR)
P56102
K1FA119E0002
or K1FA119E0001
TO P35001
DIGITAL I/F P.C.B.
(DIGITAL I/F SECTION)
P56101
K1KY10BA0033
L56101
J0MAB0000170
(ACM2012H-900-2P-T)
L56102
J0MAB0000170
L56103
J0MAB0000170
L56104
J0MAB0000170
RX56101
D1H83304A024
RX56102
D1H83304A024
Q56101
2SD1819A0L
(2SD1819AXTX)
D56101
MA2J72800L
Q56102
B1CFHA000002
Q56103
B1CFHA000002
Q56104
2SD1819A0L
Q56105
2SD1819A0L
Q56001
2SD1819A0L
Q56002
2SD1819A0L
HDMI_1_IRQ
G_SDA1_A
G_SCL1_A
RESET
G_LRCK_A
G_DMIX_B
G_DACOUT2_B
G_DACOUT1_B
G_HCLK_C
G_HCLK_B
CKA1 D2+
CKA2 D2GND
CKA3 D2-
CKA4 D1+
CKA5 D1GND
CKA6 D1-
CKA7 D0+
CKA8 D0GND
CKA9 D0-
CKA10 CLK+
CKA11 CLKGND
CKA12 CLK-
CKA13 CEC
RSV
CKA15 HDMISCL
CKA16 HDMISDA
CKA17 CECGND
CKA18 +5V
CKA19 HOTPLG
CKA20 FRAME
CKC1 GND
CKC2 X_SW_5R8V
GND
CKC4 D3R2V
CKC5 D3R8V
CKC6 HDMI_CONT
CKC7 HDMI_MONI
CKC8 HOT_PLUG
CKC9 HDMI_P5_ON_H
CKC10 HDMI_P3_ON_H
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

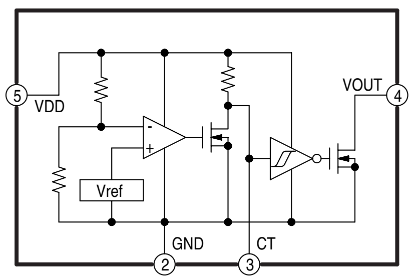
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH75VP
HDMI Schematic Diagram

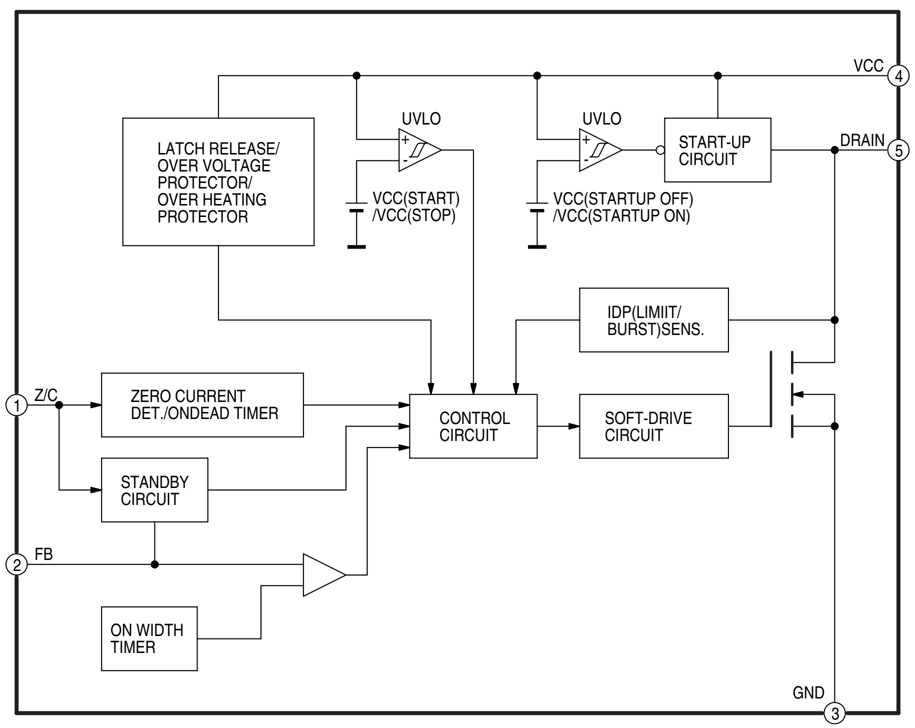
IC11201
SWITCHING IC
IC-DETAIL BLOCK DIAGRAM


5
9
VIN
DRAIN
VCC
7
LATCH RELEASE/
OVER VOLTAGE
PROTECTOR/
OVER HEATING
PROTECTOR
UVLO
UVLO
START-UP
CIRCUIT
VCC(START)
/VCC(STOP)
VCC(STARTUP OFF)
/VCC(STARTUP ON)
IDP(LIMIIT/
BURST)SENS.
Z/C
1
ZERO CURRENT
DET./ONDEAD TIMER
CONTROL
CIRCUIT
SOFT-DRIVE
CIRCUIT
STANDBY
CIRCUIT
FB
2
OCP THRESHOLD
COMPARATOR/
BURST MODE
OCP THRESHOLD
COMPARATOR
RESTERT
TIMER
ON WIDTH
TIMER
GND
3

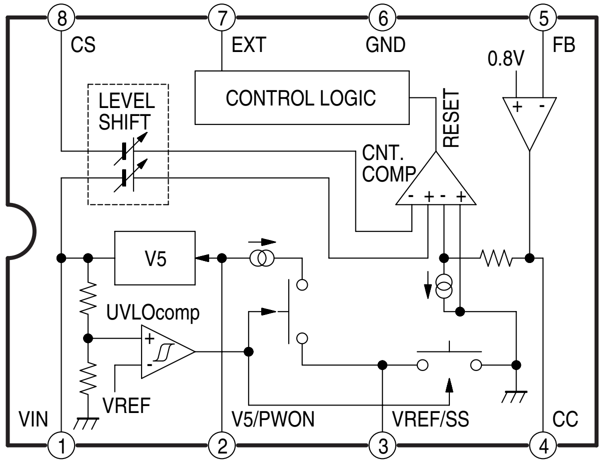
IC11602
RESET IC
IC-DETAIL BLOCK DIAGRAM


5
VDD
VOUT
4
Vref
GND
CT
2
3

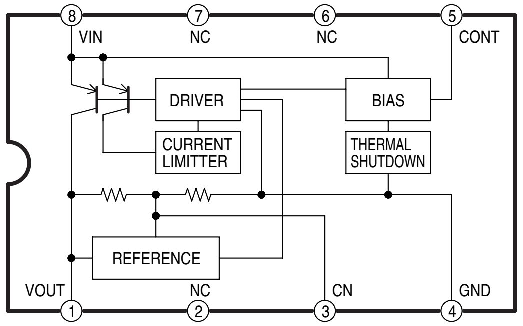
IC11301
SWITCHING IC
IC-DETAIL BLOCK DIAGRAM


VCC
4
UVLO
UVLO
LATCH RELEASE/
OVER VOLTAGE
PROTECTOR/
OVER HEATING
PROTECTOR
START-UP
CIRCUIT
DRAIN
5
VCC(START)
/VCC(STOP)
VCC(STARTUP OFF)
/VCC(STARTUP ON)
IDP(LIMIIT/
BURST)SENS.
Z/C
1
ZERO CURRENT
DET./ONDEAD TIMER
CONTROL
CIRCUIT
SOFT-DRIVE
CIRCUIT
STANDBY
CIRCUIT
FB
2
ON WIDTH
TIMER
GND
3

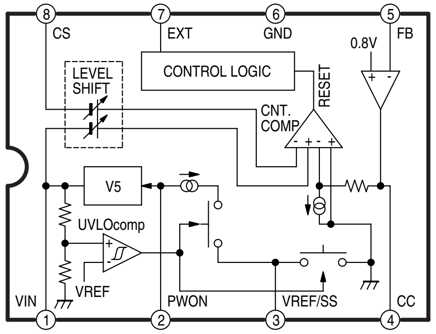
IC11601
DR +5V SWITCHING REGULATOR
IC-DETAIL BLOCK DIAGRAM


8
7
6
5
CS
EXT
GND
FB
0.8V
LEVEL
SHIFT
CONTROL LOGIC
RESET
CNT.
COMP
V5
UVLOcomp
VREF
VIN
V5/PWON
VREF/SS
CC
1
2
3
4

IC11720
F+ SWITCHING REGULATOR
IC-DETAIL BLOCK DIAGRAM

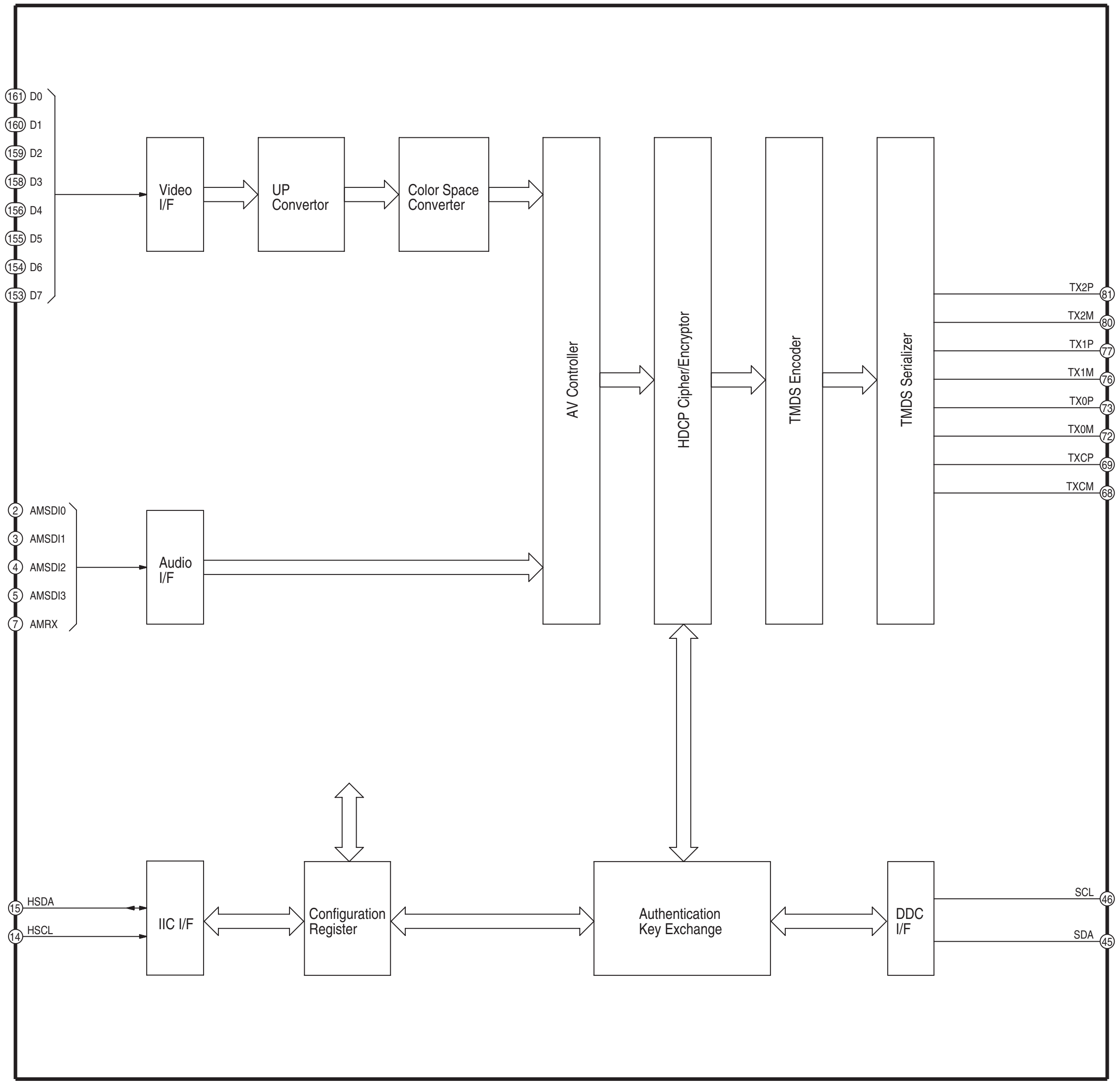

8
7
6
5
VIN
NC
NC
CONT
DRIVER
BIAS
CURRENT
LIMITTER
THERMAL
SHUTDOWN
REFERENCE
VOUT
NC
CN
GND
1
2
3
4

IC11801
D +3.8V SWITCHING REGULATOR
IC-DETAIL BLOCK DIAGRAM

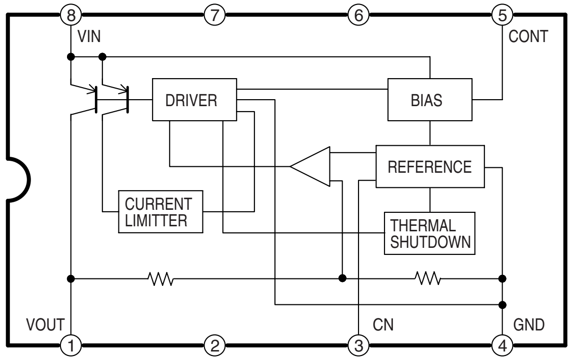

8
7
6
5
CS
EXT
GND
FB
0.8V
LEVEL
SHIFT
CONTROL LOGIC
RESET
CNT.
COMP
V5
UVLOcomp
VREF
VIN
PWON
VREF/SS
CC
1
2
3
4

IC11201 Detail Block Diagram
IC11301 Detail Block Diagram
IC11601 Detail Block Diagram
IC11602 Detail Block Diagram
IC11720 Detail Block Diagram
IC11801 Detail Block Diagram
DMR-EH75VP IC-Detail Block Diagram

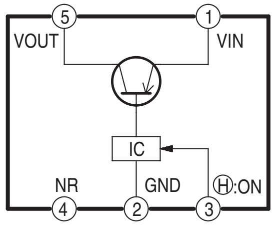
IC56103
HDMI TRANSMITTER
IC-DETAIL BLOCK DIAGRAM


161 D0
160 D1
159 D2
158 D3
156 D4
155 D5
154 D6
153 D7
Video I/F
UP Convertor
Color Space Converter
AV Controller
HDCP Cipher/Encryptor
TMDS Encoder
TMDS Serializer
TX2P 81
TX2M 80
TX1P 77
TX1M 76
TX0P 73
TX0M 72
TXCP 69
TXCM 68
2 AMSDI0
3 AMSDI1
4 AMSDI2
5 AMSDI3
7 AMRX
Audio I/F
15 HSDA
14 HSCL
IIC I/F
Configuration Register
Authentication Key Exchange
DDC I/F
SCL 46
SDA 45

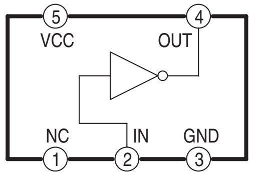
IC56104
+3.3V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM


8 VIN
7
6
5 CONT
DRIVER
BIAS
REFERENCE
CURRENT LIMITTER
THERMAL SHUTDOWN
VOUT 1
2
CN 3
GND 4

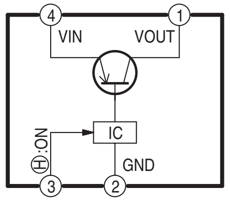
IC56105
+5V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM


5 VOUT
1 VIN
IC
NR 4
GND 2
Ⓗ:ON 3

IC56107
INVERTER
IC-DETAIL BLOCK DIAGRAM

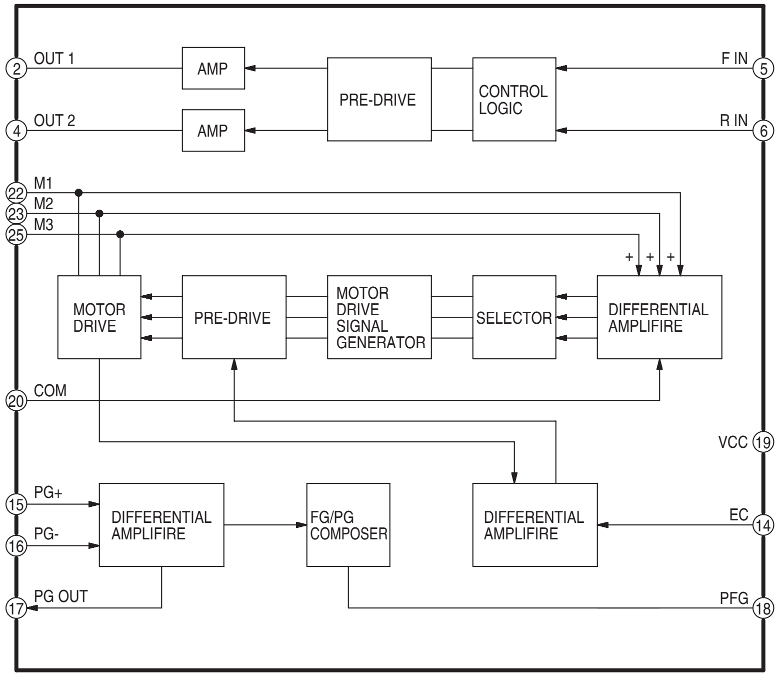

5 VCC
4 OUT
NC 1
IN 2
GND 3

IC2001,6301
+5V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM



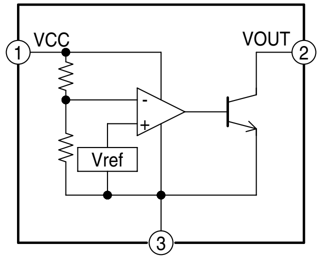
④ VIN
① VOUT
IC
Ⓗ:ON
③
② GND

IC2501
LOADING/CYLINDER MOTOR DRIVE
IC-DETAIL BLOCK DIAGRAM



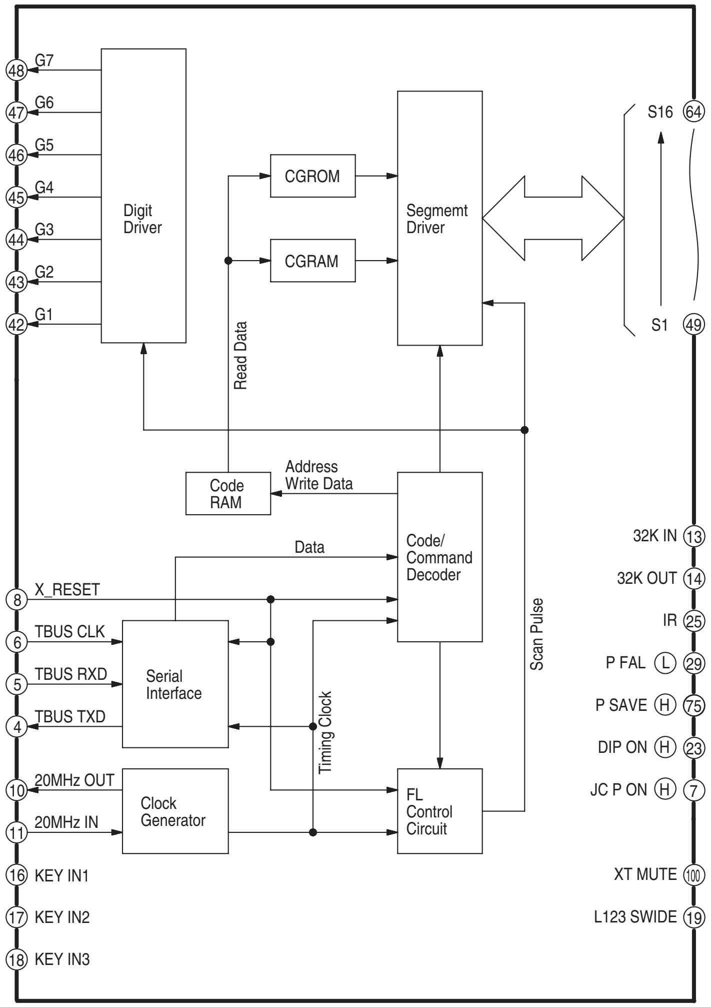
② OUT 1
④ OUT 2
AMP
AMP
PRE-DRIVE
CONTROL LOGIC
F IN ⑤
R IN ⑥
(22) M1
(23) M2
(25) M3
MOTOR DRIVE
PRE-DRIVE
MOTOR DRIVE SIGNAL GENERATOR
SELECTOR
DIFFERENTIAL AMPLIFIRE
+ + +
⑳ COM
VCC ⑲
⑮ PG+
⑯ PG-
DIFFERENTIAL AMPLIFIRE
FG/PG COMPOSER
DIFFERENTIAL AMPLIFIRE
EC ⑭
⑰ PG OUT
PFG ⑱

IC6002
RESET
IC-DETAIL BLOCK DIAGRAM



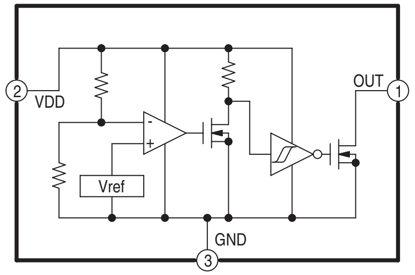
① VCC
VOUT ②
-
+
Vref
③

IC7501
TIMER
IC-DETAIL BLOCK DIAGRAM



(48) G7
(47) G6
(46) G5
(45) G4
(44) G3
(43) G2
(42) G1
Digit Driver
CGROM
CGRAM
Segmemt Driver
S16 (64)
S1 (49)
Read Data
Code RAM
Address Write Data
Data
Code/ Command Decoder
Scan Pulse
⑧ X_RESET
⑥ TBUS CLK
⑤ TBUS RXD
④ TBUS TXD
Serial Interface
Timing Clock
⑩ 20MHz OUT
⑪ 20MHz IN
Clock Generator
FL Control Circuit
⑯ KEY IN1
⑰ KEY IN2
⑱ KEY IN3
32K IN ⑬
32K OUT ⑭
IR (25)
P FAL Ⓛ (29)
P SAVE Ⓗ (75)
DIP ON Ⓗ (23)
JC P ON Ⓗ ⑦
XT MUTE (100)
L123 SWIDE ⑲

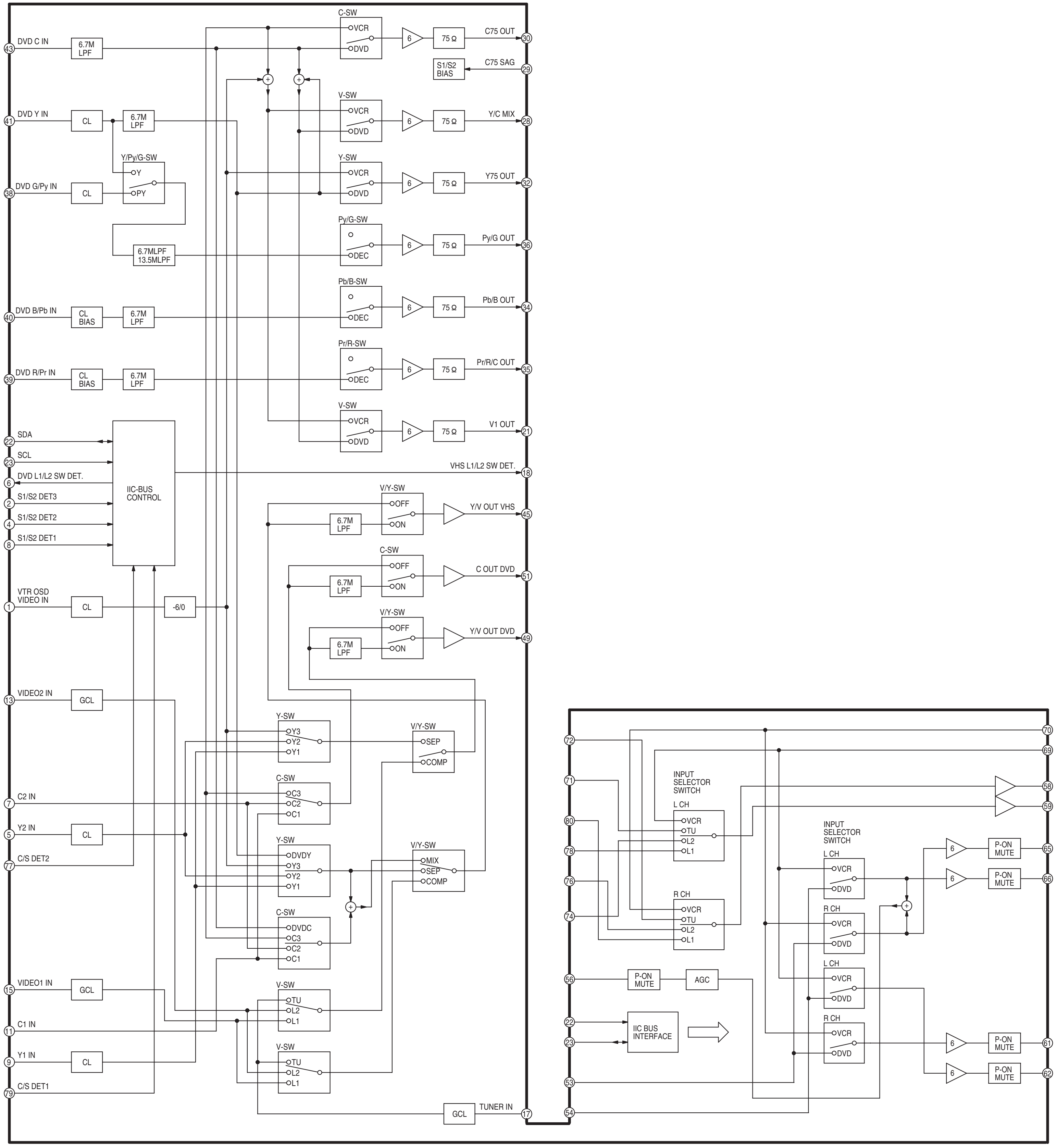
IC7503
RESET
IC-DETAIL BLOCK DIAGRAM



② VDD
OUT ①
-
+
Vref
③ GND

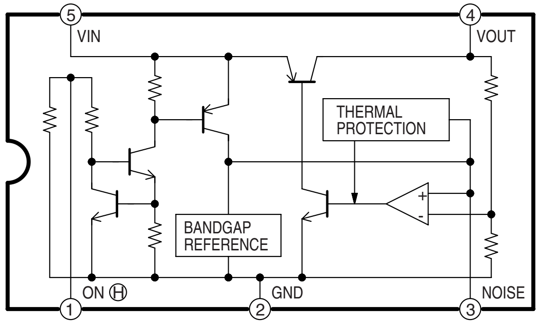
IC2001 Detail Block Diagram
IC2501 Detail Block Diagram
IC6002 Detail Block Diagram
IC6301 Detail Block Diagram
IC7501 Detail Block Diagram
IC7503 Detail Block Diagram
DMR-EH75VP IC-Detail Block Diagram

IC3701
VIDEO/AUDIO PROCESSOR
IC-DETAIL BLOCK DIAGRAM



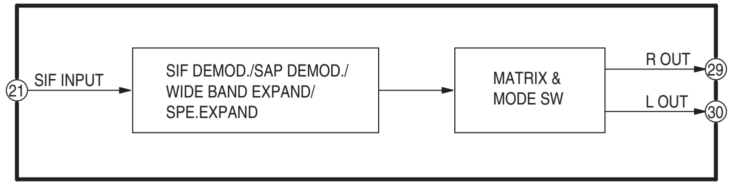
DVD C IN
6.7M LPF
C-SW
VCR
DVD
6
75 Ω
C75 OUT
S1/S2 BIAS
C75 SAG
DVD Y IN
CL
6.7M LPF
V-SW
Y/C MIX
Y/Py/G-SW
Y
PY
DVD G/Py IN
Y-SW
Y75 OUT
Py/G-SW
6.7MLPF 13.5MLPF
DEC
Py/G OUT
Pb/B-SW
DVD B/Pb IN
CL BIAS
Pb/B OUT
Pr/R-SW
DVD R/Pr IN
Pr/R/C OUT
V1 OUT
SDA
SCL
DVD L1/L2 SW DET.
S1/S2 DET3
S1/S2 DET2
S1/S2 DET1
IIC-BUS CONTROL
VHS L1/L2 SW DET.
V/Y-SW
OFF
ON
Y/V OUT VHS
C OUT DVD
Y/V OUT DVD
VTR OSD VIDEO IN
-6/0
VIDEO2 IN
GCL
Y3
Y2
Y1
SEP
COMP
C2 IN
C3
C2
C1
Y2 IN
C/S DET2
DVDY
MIX
DVDC
VIDEO1 IN
TU
L2
L1
C1 IN
Y1 IN
C/S DET1
TUNER IN
INPUT SELECTOR SWITCH
L CH
R CH
P-ON MUTE
AGC
IIC BUS INTERFACE
43
41
38
40
39
22
23
6
2
4
8
1
13
7
5
77
15
11
9
79
30
29
28
32
36
34
35
21
18
45
51
49
17
72
71
80
78
76
74
56
22
23
53
54
70
69
58
59
65
66
61
62

IC4801
AU +9V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM



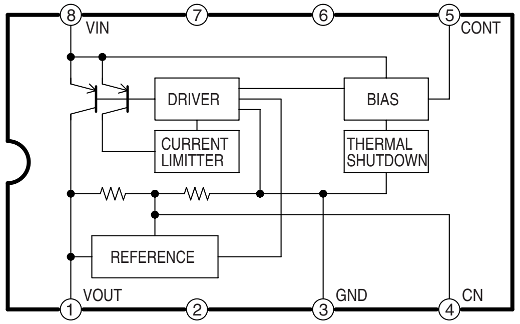
5
4
VIN
VOUT
THERMAL PROTECTION
BANDGAP REFERENCE
1
2
3
ON Ⓗ
GND
NOISE

IC7301
AUDIO MULTIPLEX DECODER
IC-DETAIL BLOCK DIAGRAM



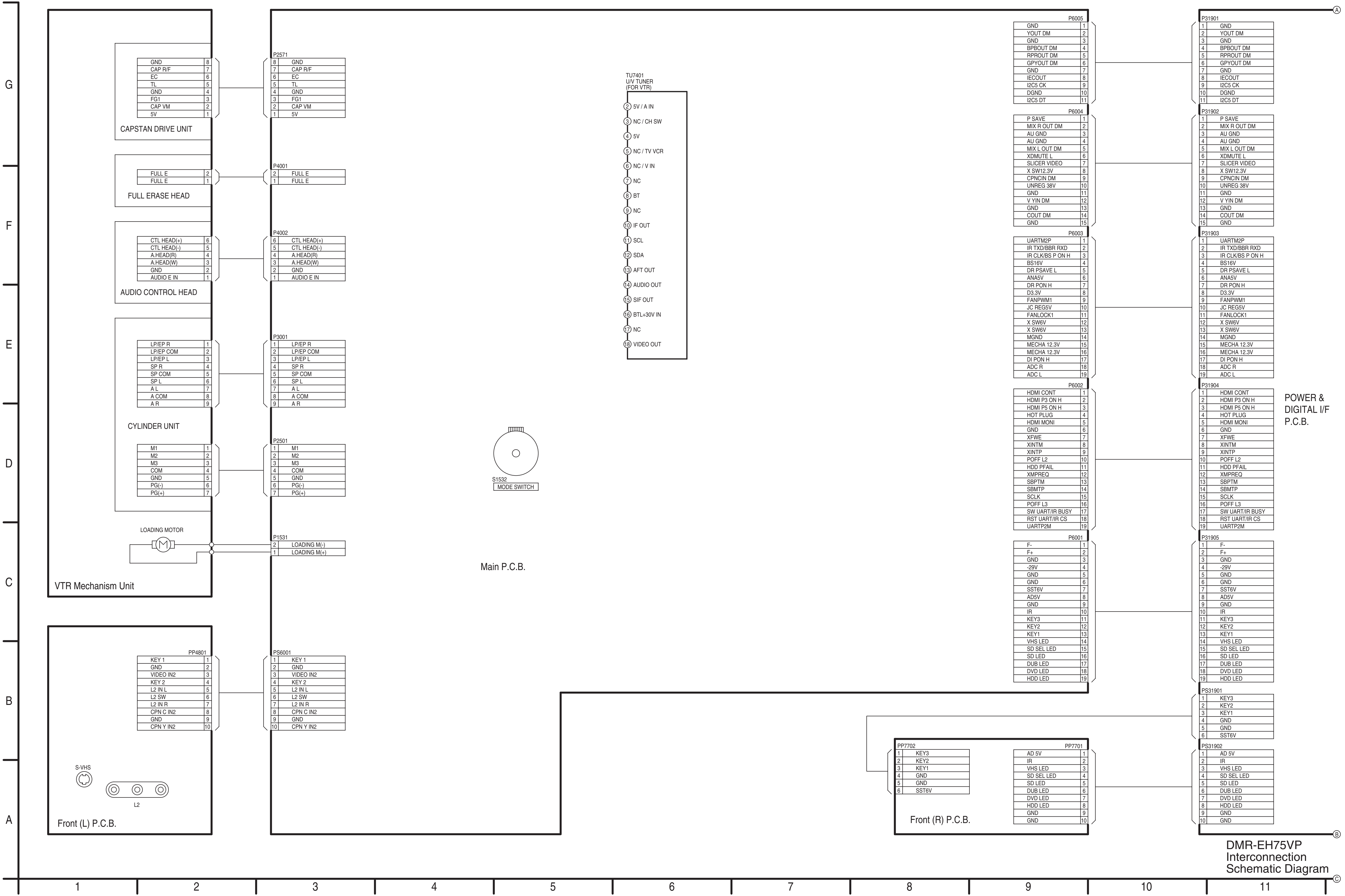
21
SIF INPUT
SIF DEMOD./SAP DEMOD./ WIDE BAND EXPAND/ SPE.EXPAND
MATRIX & MODE SW
R OUT
L OUT
29
30

IC7402
TU +5V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM

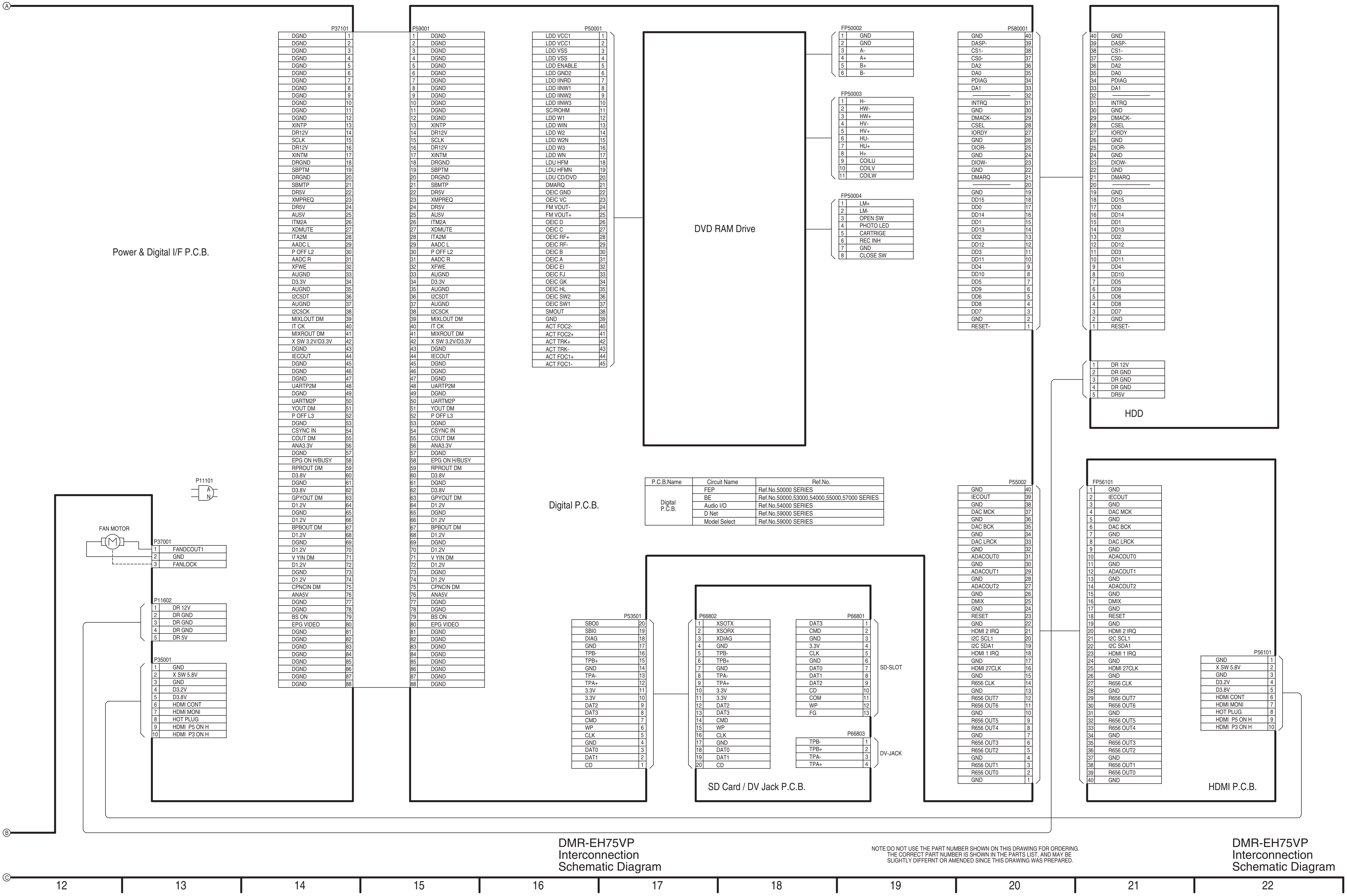


8
7
6
5
VIN
CONT
DRIVER
BIAS
CURRENT LIMITTER
THERMAL SHUTDOWN
REFERENCE
VOUT
GND
CN
1
2
3
4

IC3701 Detail Block Diagram
IC4801 Detail Block Diagram
IC7301 Detail Block Diagram
IC7402 Detail Block Diagram
DMR-EH75VP IC-Detail Block Diagram


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
VTR Mechanism Unit
CAPSTAN DRIVE UNIT
P2571
8 GND
7 CAP R/F
6 EC
5 TL
4 GND
3 FG1
2 CAP VM
1 5V
FULL ERASE HEAD
P4001
2 FULL E
1 FULL E
AUDIO CONTROL HEAD
P4002
6 CTL HEAD(+)
5 CTL HEAD(-)
4 A.HEAD(R)
3 A.HEAD(W)
2 GND
1 AUDIO E IN
CYLINDER UNIT
P3001
1 LP/EP R
2 LP/EP COM
3 LP/EP L
4 SP R
5 SP COM
6 SP L
7 A L
8 A COM
9 A R
P2501
1 M1
2 M2
3 M3
4 COM
5 GND
6 PG(-)
7 PG(+)
LOADING MOTOR
P1531
2 LOADING M(-)
1 LOADING M(+)
Front (L) P.C.B.
PP4801
PS6001
1 KEY 1
2 GND
3 VIDEO IN2
4 KEY 2
5 L2 IN L
6 L2 SW
7 L2 IN R
8 CPN C IN2
9 GND
10 CPN Y IN2
S-VHS
L2
Main P.C.B.
TU7401
U/V TUNER
(FOR VTR)
2 5V / A IN
3 NC / CH SW
4 5V
5 NC / TV VCR
6 NC / V IN
7 NC
8 BT
9 NC
10 IF OUT
11 SCL
12 SDA
13 AFT OUT
14 AUDIO OUT
15 SIF OUT
16 BTL+30V IN
17 NC
18 VIDEO OUT
S1532
MODE SWITCH
P6005
P31901
1 GND
2 YOUT DM
3 GND
4 BPBOUT DM
5 RPROUT DM
6 GPYOUT DM
7 GND
8 IECOUT
9 I2C5 CK
10 DGND
11 I2C5 DT
P6004
P31902
1 P SAVE
2 MIX R OUT DM
3 AU GND
4 AU GND
5 MIX L OUT DM
6 XDMUTE L
7 SLICER VIDEO
8 X SW12.3V
9 CPNCIN DM
10 UNREG 38V
11 GND
12 V YIN DM
13 GND
14 COUT DM
15 GND
P6003
P31903
1 UARTM2P
2 IR TXD/BBR RXD
3 IR CLK/BS P ON H
4 BS16V
5 DR PSAVE L
6 ANA5V
7 DR PON H
8 D3.3V
9 FANPWM1
10 JC REG5V
11 FANLOCK1
12 X SW6V
13 X SW6V
14 MGND
15 MECHA 12.3V
16 MECHA 12.3V
17 DI PON H
18 ADC R
19 ADC L
P6002
P31904
1 HDMI CONT
2 HDMI P3 ON H
3 HDMI P5 ON H
4 HOT PLUG
5 HDMI MONI
6 GND
7 XFWE
8 XINTM
9 XINTP
10 POFF L2
11 HDD PFAIL
12 XMPREQ
13 SBPTM
14 SBMTP
15 SCLK
16 POFF L3
17 SW UART/IR BUSY
18 RST UART/IR CS
19 UARTP2M
P6001
P31905
1 F-
2 F+
3 GND
4 -29V
5 GND
6 GND
7 SST6V
8 AD5V
9 GND
10 IR
11 KEY3
12 KEY2
13 KEY1
14 VHS LED
15 SD SEL LED
16 SD LED
17 DUB LED
18 DVD LED
19 HDD LED
PS31901
PP7702
1 KEY3
2 KEY2
3 KEY1
4 GND
5 GND
6 SST6V
PS31902
PP7701
1 AD 5V
2 IR
3 VHS LED
4 SD SEL LED
5 SD LED
6 DUB LED
7 DVD LED
8 HDD LED
9 GND
10 GND
Front (R) P.C.B.
POWER &
DIGITAL I/F
P.C.B.
A
B
C

DMR-EH75VP
Interconnection
Schematic Diagram


A
B
C
Power & Digital I/F P.C.B.
Digital P.C.B.
DVD RAM Drive
HDD
SD Card / DV Jack P.C.B.
HDMI P.C.B.
FAN MOTOR
M
P11101
A
N
P37001
1 FANDCOUT1
2 GND
3 FANLOCK
P11602
1 DR 12V
2 DR GND
3 DR GND
4 DR GND
5 DR 5V
P35001
1 GND
2 X SW 5.8V
3 GND
4 D3.2V
5 D3.8V
6 HDMI CONT
7 HDMI MONI
8 HOT PLUG
9 HDMI P5 ON H
10 HDMI P3 ON H
P37101
1 DGND
2 DGND
3 DGND
4 DGND
5 DGND
6 DGND
7 DGND
8 DGND
9 DGND
10 DGND
11 DGND
12 DGND
13 XINTP
14 DR12V
15 SCLK
16 DR12V
17 XINTM
18 DRGND
19 SBPTM
20 DRGND
21 SBMTP
22 DR5V
23 XMPREQ
24 DR5V
25 AU5V
26 ITM2A
27 XDMUTE
28 ITA2M
29 AADC L
30 P OFF L2
31 AADC R
32 XFWE
33 AUGND
34 D3.3V
35 AUGND
36 I2C5DT
37 AUGND
38 I2C5CK
39 MIXLOUT DM
40 IT CK
41 MIXROUT DM
42 X SW 3.2V/D3.3V
43 DGND
44 IECOUT
45 DGND
46 DGND
47 DGND
48 UARTP2M
49 DGND
50 UARTM2P
51 YOUT DM
52 P OFF L3
53 DGND
54 CSYNC IN
55 COUT DM
56 ANA3.3V
57 DGND
58 EPG ON H/BUSY
59 RPROUT DM
60 D3.8V
61 DGND
62 D3.8V
63 GPYOUT DM
64 D1.2V
65 DGND
66 D1.2V
67 BPBOUT DM
68 D1.2V
69 DGND
70 D1.2V
71 V YIN DM
72 D1.2V
73 DGND
74 D1.2V
75 CPNCIN DM
76 ANA5V
77 DGND
78 DGND
79 BS ON
80 EPG VIDEO
81 DGND
82 DGND
83 DGND
84 DGND
85 DGND
86 DGND
87 DGND
88 DGND
P59001
1 DGND
2 DGND
3 DGND
4 DGND
5 DGND
6 DGND
7 DGND
8 DGND
9 DGND
10 DGND
11 DGND
12 DGND
13 XINTP
14 DR12V
15 SCLK
16 DR12V
17 XINTM
18 DRGND
19 SBPTM
20 DRGND
21 SBMTP
22 DR5V
23 XMPREQ
24 DR5V
25 AU5V
26 ITM2A
27 XDMUTE
28 ITA2M
29 AADC L
30 P OFF L2
31 AADC R
32 XFWE
33 AUGND
34 D3.3V
35 AUGND
36 I2C5DT
37 AUGND
38 I2C5CK
39 MIXLOUT DM
40 IT CK
41 MIXROUT DM
42 X SW 3.2V/D3.3V
43 DGND
44 IECOUT
45 DGND
46 DGND
47 DGND
48 UARTP2M
49 DGND
50 UARTM2P
51 YOUT DM
52 P OFF L3
53 DGND
54 CSYNC IN
55 COUT DM
56 ANA3.3V
57 DGND
58 EPG ON H/BUSY
59 RPROUT DM
60 D3.8V
61 DGND
62 D3.8V
63 GPYOUT DM
64 D1.2V
65 DGND
66 D1.2V
67 BPBOUT DM
68 D1.2V
69 DGND
70 D1.2V
71 V YIN DM
72 D1.2V
73 DGND
74 D1.2V
75 CPNCIN DM
76 ANA5V
77 DGND
78 DGND
79 BS ON
80 EPG VIDEO
81 DGND
82 DGND
83 DGND
84 DGND
85 DGND
86 DGND
87 DGND
88 DGND
P50001
1 LDD VCC1
2 LDD VCC1
3 LDD VSS
4 LDD VSS
5 LDD ENABLE
6 LDD GND2
7 LDD IINRD
8 LDD IINW1
9 LDD IINW2
10 LDD IINW3
11 SC/ROHM
12 LDD W1
13 LDD WIN
14 LDD W2
15 LDD W2N
16 LDD W3
17 LDD WN
18 LDU HFM
19 LDU HFMN
20 LDU CD/DVD
21 DMARQ
22 OEIC GND
23 OEIC VC
24 FM VOUT-
25 FM VOUT+
26 OEIC D
27 OEIC C
28 OEIC RF+
29 OEIC RF-
30 OEIC B
31 OEIC A
32 OEIC EI
33 OEIC FJ
34 OEIC GK
35 OEIC HL
36 OEIC SW2
37 OEIC SW1
38 SMOUT
39 GND
40 ACT FOC2-
41 ACT FOC2+
42 ACT TRK+
43 ACT TRK-
44 ACT FOC1+
45 ACT FOC1-
FP50002
1 GND
2 GND
3 A-
4 A+
5 B+
6 B-
FP50003
1 H-
2 HW-
3 HW+
4 HV-
5 HV+
6 HU-
7 HU+
8 H+
9 COILU
10 COILV
11 COILW
FP50004
1 LM+
2 LM-
3 OPEN SW
4 PHOTO LED
5 CARTRIGE
6 REC INH
7 GND
8 CLOSE SW
P580001
GND 40
DASP- 39
CS1- 38
CS0- 37
DA2 36
DA0 35
PDIAG 34
DA1 33
32
INTRQ 31
GND 30
DMACK- 29
CSEL 28
IORDY 27
GND 26
DIOR- 25
GND 24
DIOW- 23
GND 22
DMARQ 21
20
GND 19
DD15 18
DD0 17
DD14 16
DD1 15
DD13 14
DD2 13
DD12 12
DD3 11
DD11 10
DD4 9
DD10 8
DD5 7
DD9 6
DD6 5
DD8 4
DD7 3
GND 2
RESET- 1
40 GND
39 DASP-
38 CS1-
37 CS0-
36 DA2
35 DA0
34 PDIAG
33 DA1
32
31 INTRQ
30 GND
29 DMACK-
28 CSEL
27 IORDY
26 GND
25 DIOR-
24 GND
23 DIOW-
22 GND
21 DMARQ
20
19 GND
18 DD15
17 DD0
16 DD14
15 DD1
14 DD13
13 DD2
12 DD12
11 DD3
10 DD11
9 DD4
8 DD10
7 DD5
6 DD9
5 DD6
4 DD8
3 DD7
2 GND
1 RESET-
1 DR 12V
2 DR GND
3 DR GND
4 DR GND
5 DR5V
P53501
SBO0 20
SBI0 19
DIAG 18
GND 17
TPB- 16
TPB+ 15
GND 14
TPA- 13
TPA+ 12
3.3V 11
3.3V 10
DAT2 9
DAT3 8
CMD 7
WP 6
CLK 5
GND 4
DAT0 3
DAT1 2
CD 1
P66802
1 XSOTX
2 XSORX
3 XDIAG
4 GND
5 TPB-
6 TPB+
7 GND
8 TPA-
9 TPA+
10 3.3V
11 3.3V
12 DAT2
13 DAT3
14 CMD
15 WP
16 CLK
17 GND
18 DAT0
19 DAT1
20 CD
P66801
DAT3 1
CMD 2
GND 3
3.3V 4
CLK 5
GND 6
DAT0 7
DAT1 8
DAT2 9
CD 10
COM 11
WP 12
FG 13
SD-SLOT
P66803
TPB- 1
TPB+ 2
TPA- 3
TPA+ 4
DV-JACK
P55002
GND 40
IECOUT 39
GND 38
DAC MCK 37
GND 36
DAC BCK 35
GND 34
DAC LRCK 33
GND 32
ADACOUT0 31
GND 30
ADACOUT1 29
GND 28
ADACOUT2 27
GND 26
DMIX 25
GND 24
RESET 23
GND 22
HDMI 2 IRQ 21
I2C SCL1 20
I2C SDA1 19
HDMI 1 IRQ 18
GND 17
HDMI 27CLK 16
GND 15
R656 CLK 14
GND 13
R656 OUT7 12
R656 OUT6 11
GND 10
R656 OUT5 9
R656 OUT4 8
GND 7
R656 OUT3 6
R656 OUT2 5
GND 4
R656 OUT1 3
R656 OUT0 2
GND 1
FP56101
1 GND
2 IECOUT
3 GND
4 DAC MCK
5 GND
6 DAC BCK
7 GND
8 DAC LRCK
9 GND
10 ADACOUT0
11 GND
12 ADACOUT1
13 GND
14 ADACOUT2
15 GND
16 DMIX
17 GND
18 RESET
19 GND
20 HDMI 2 IRQ
21 I2C SCL1
22 I2C SDA1
23 HDMI 1 IRQ
24 GND
25 HDMI 27CLK
26 GND
27 R656 CLK
28 GND
29 R656 OUT7
30 R656 OUT6
31 GND
32 R656 OUT5
33 R656 OUT4
34 GND
35 R656 OUT3
36 R656 OUT2
37 GND
38 R656 OUT1
39 R656 OUT0
40 GND
P56101
GND 1
X SW 5.8V 2
GND 3
D3.2V 4
D3.8V 5
HDMI CONT 6
HDMI MONI 7
HOT PLUG 8
HDMI P5 ON H 9
HDMI P3 ON H 10
12
13
14
15
16
17
18
19
20
21
22

P.C.B.Name	Circuit Name	Ref.No.
Digital P.C.B.	FEP	Ref.No.50000 SERIES
	BE	Ref.No.50000,53000,54000,55000,57000 SERIES
	Audio I/O	Ref.No.54000 SERIES
	D Net	Ref.No.59000 SERIES
	Model Select	Ref.No.59000 SERIES

DMR-EH75VP
Interconnection
Schematic Diagram

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SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH75VP
Interconnection
Schematic Diagram

LOCATION MAP

1/4	2/4
3/4	4/4

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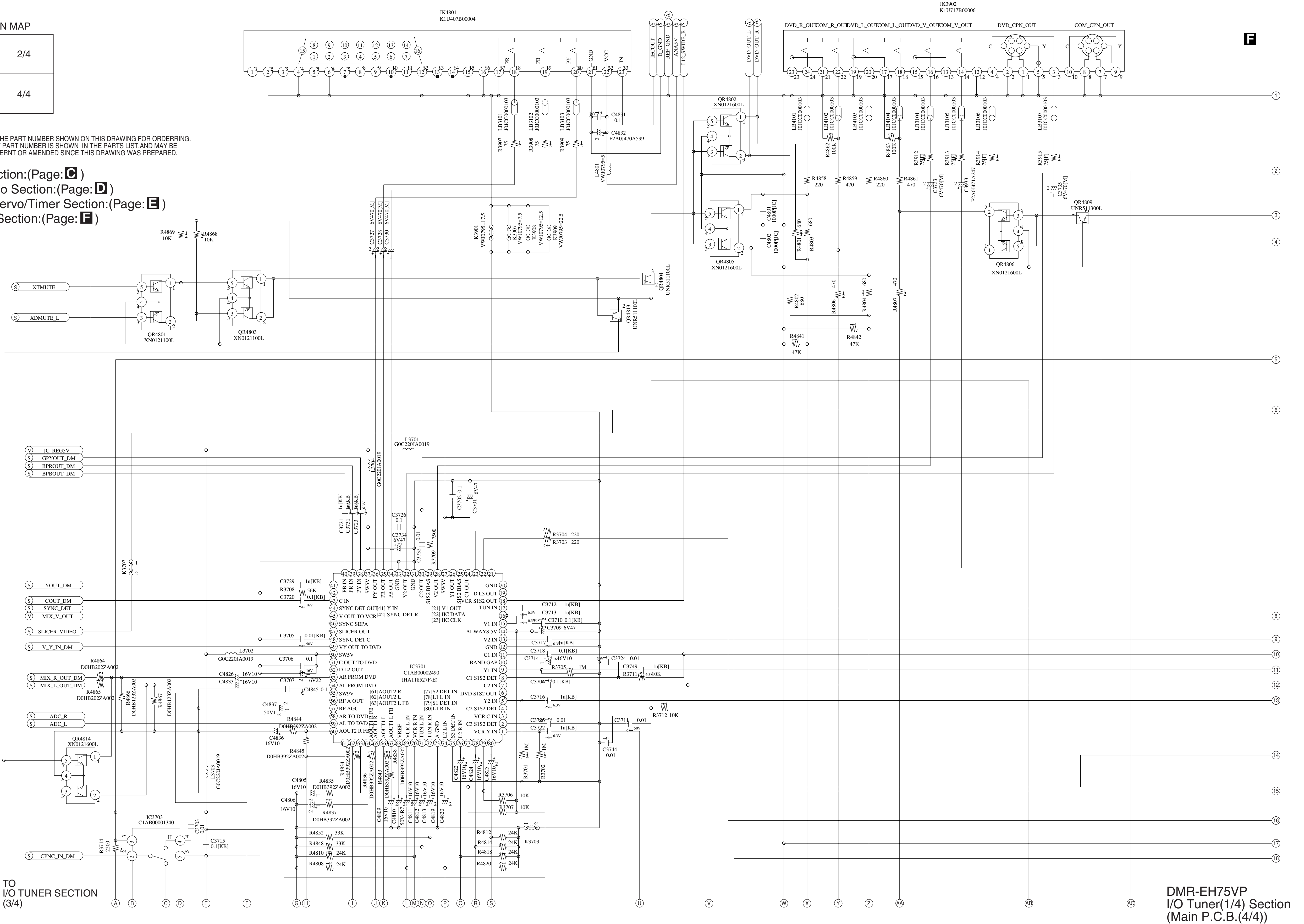
V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

F



JK4801
K1U407B00004
JK3902
K1U717B00006
DVD_R_OUT
COM_R_OUT
DVD_L_OUT
COM_L_OUT
DVD_V_OUT
COM_V_OUT
DVD_CPN_OUT
COM_CPN_OUT
PR
PB
PY
GND
VCC
IN
IECOUT
D_GND
REF_GND
ANA5V
L12_SWIDE_B
DVD_OUT_L
DVD_OUT_R
QR4801
XN0121100L
QR4803
XN0121100L
QR4802
XN0121600L
QR4805
XN0121600L
QR4806
XN0121600L
QR4809
UNR511300L
QR4804
UNR511100L
QR4813
UNR511100L
QR4814
XN0121600L
XTMUTE
XDMUTE_L
JC_REG5V
GPYOUT_DM
RPROUT_DM
BPBOUT_DM
YOUT_DM
COUT_DM
SYNC_DET
MIX_V_OUT
SLICER_VIDEO
V_Y_IN_DM
MIX_R_OUT_DM
MIX_L_OUT_DM
ADC_R
ADC_L
CPNC_IN_DM
IC3701
C1AB00002490
(HA118527F-E)
IC3703
C1AB00001340
L3701
G0C220JA0019
L3702
G0C220JA0019
L3704
G0C220JA0019
L3705
G0C220JA0019
L4801
VWJ0795=5
C4831
0.1
C4832
F2A0J470A599
K3703

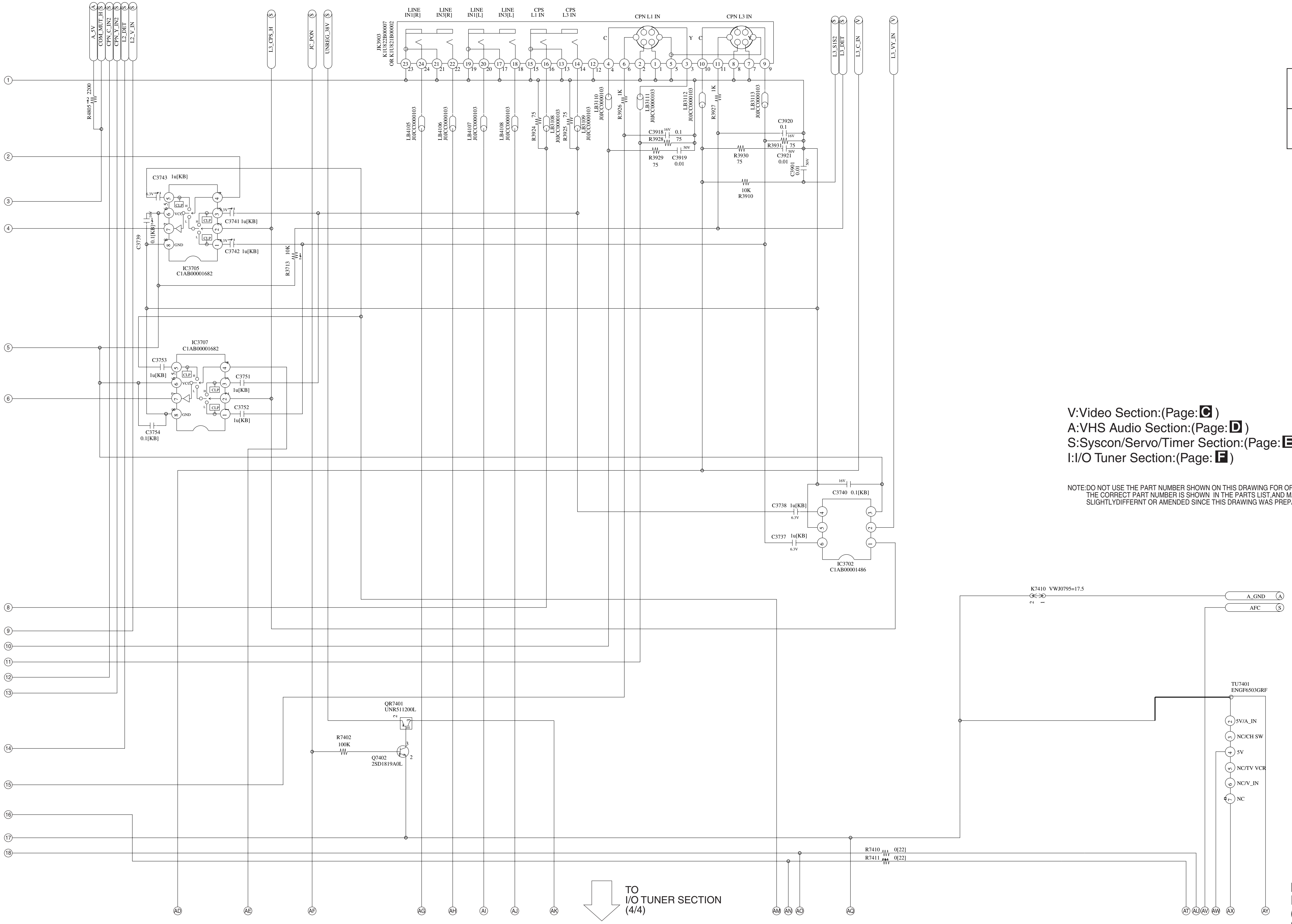
TO
I/O TUNER SECTION
(3/4)

DMR-EH75VP
I/O Tuner(1/4) Section
(Main P.C.B.(4/4))
Schematic Diagram(I)

F

LOCATION MAP

1/4	2/4
3/4	4/4


A_5V
COM_MUT_H
CPN_C_IN2
CPN_Y_IN2
L2_DET
L2_V_IN
L3_CPS_H
JC_PON
UNREG_38V
JK3903
K1US22B00007
OR K1US21B00002
LINE IN1[R]
LINE IN3[R]
LINE IN1[L]
LINE IN3[L]
CPS L1 IN
CPS L3 IN
CPN L1 IN
CPN L3 IN
L3_S1S2
L3_DET
L3_C_IN
L3_VY_IN
R4805 2200
LB4105 J0JCC0000103
LB4106 J0JCC0000103
LB4107 J0JCC0000103
LB4108 J0JCC0000103
R3924 75
LB3108 J0JCC0000103
R3925 75
LB3109 J0JCC0000103
LB3110 J0JCC0000103
R3926 1K
LB3111 J0JCC0000103
LB3112 J0JCC0000103
R3927 1K
LB3113 J0JCC0000103
C3918 16V 0.1
R3928 75
R3929 75
C3919 50V 0.01
R3930 75
C3920 0.1 16V
R3931 75
C3921 50V 0.01
C3901 0.01 50V
R3910 10K
C3743 1u[KB]
C3741 1u[KB]
C3742 1u[KB]
C3739 0.1[KB]
IC3705 C1AB00001682
R3713 10K
IC3707 C1AB00001682
C3753 1u[KB]
C3751 1u[KB]
C3752 1u[KB]
C3754 0.1[KB]
CLP
VCC
GND
C3740 0.1[KB] 16V
C3738 1u[KB] 6.3V
C3737 1u[KB] 6.3V
IC3702 C1AB00001486
K7410 VWJ0795=17.5
A_GND
AFC
TU7401 ENGF6503GRF
5V/A_IN
NC/CH SW
5V
NC/TV VCR
NC/V_IN
NC
QR7401 UNR511200L
R7402 100K
Q7402 2SD1819A0L
R7410 0[22]
R7411 0[22]
TO I/O TUNER SECTION (4/4)
AD AE AF AG AH AI AJ AK AM AN AO AQ AT AU AV AW AX AY
6
7
8
9
10

V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

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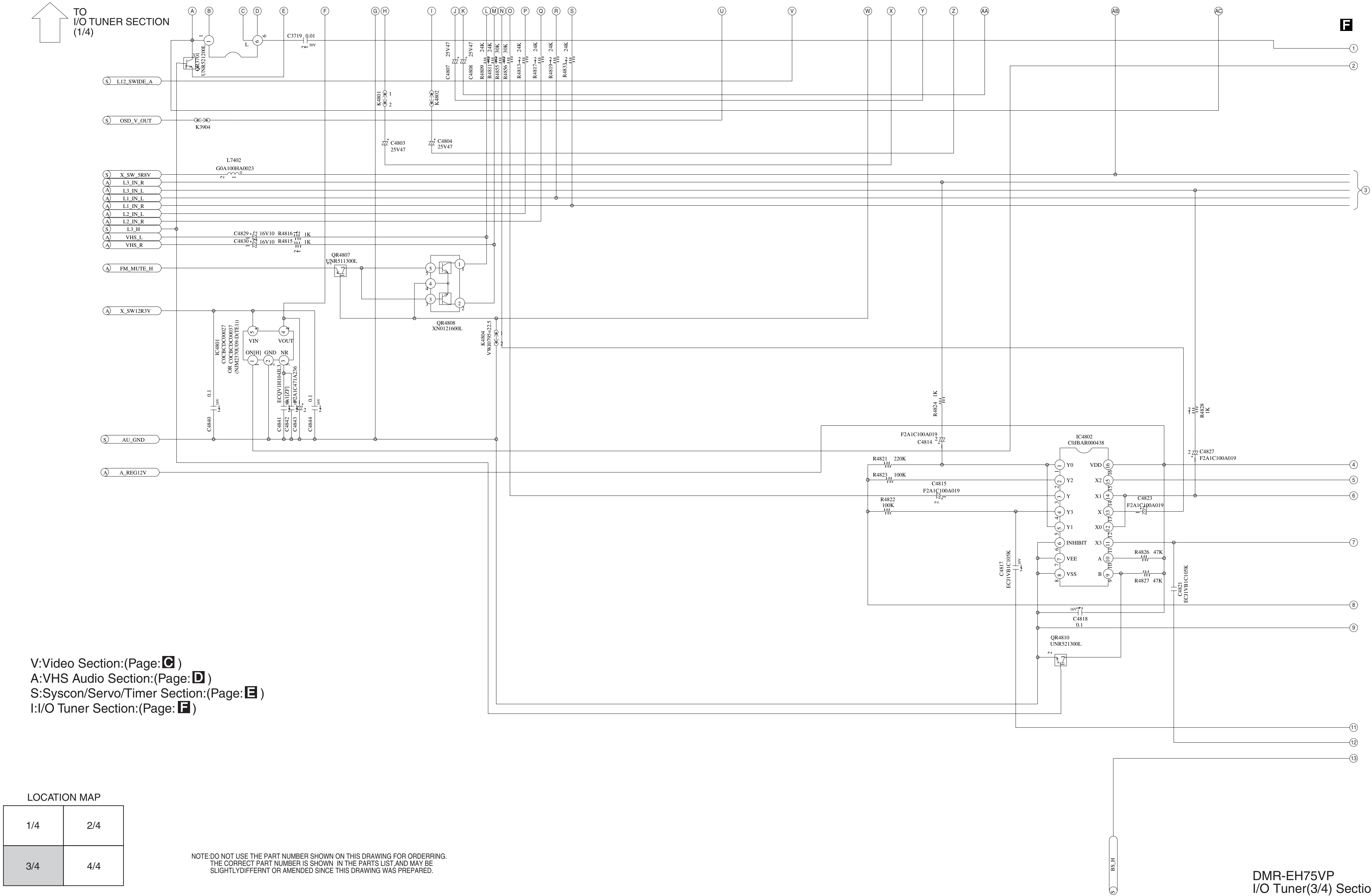
DMR-EH75VP
I/O Tuner(2/4) Section
(Main P.C.B.(4/4))
Schematic Diagram(I)


TO
I/O TUNER SECTION
(1/4)
F
A B C D E F G H I J K L M N O P Q R S U V W X Y Z AA AB AC
C3719 0.01
50V
QR3701
UNR521200L
L
L12_SWIDE_A
OSD_V_OUT
K3904
K4801
K4802
C4803
25V47
C4804
25V47
C4807 25V47
C4808 25V47
R4809 24K
R4811 24K
R4855 30K
R4856 30K
R4813 24K
R4817 24K
R4819 24K
R4833 24K
L7402
G0A100HA0023
X_SW_5R8V
L3_IN_R
L3_IN_L
L1_IN_L
L1_IN_R
L2_IN_L
L2_IN_R
L3_H
VHS_L
VHS_R
C4829 16V10
C4830 16V10
R4816 1K
R4815 1K
FM_MUTE_H
QR4807
UNR511300L
QR4808
XN0121600L
X_SW12R3V
IC4801
C0CBCDC00027
OR C0CBCDC00037
(NJM2370U09-D(TE1))
VIN
VOUT
ON[H]
GND
NR
K4804
VWJ0795=22.5
ECQV1H104JL3
0.1[ZF]
F2A1C471A236
0.1
16V
C4840
C4841
C4842
C4843
C4844
AU_GND
A_REG12V
R4824 1K
F2A1C100A019
C4814
R4828 1K
C4827
F2A1C100A019
IC4802
C0JBAR000438
Y0
Y2
Y
Y3
Y1
INHIBIT
VEE
VSS
VDD
X2
X1
X
X0
X3
A
B
R4821 220K
R4823 100K
R4822 100K
C4815
F2A1C100A019
C4823
F2A1C100A019
R4826 47K
R4827 47K
C4817
ECJ1VB1C105K
C4821
ECJ1VB1C105K
C4818
0.1
16V
QR4810
UNR521300L
BS_H
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑪ ⑫ ⑬
C
B
A
1
2
3
4
5

V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

LOCATION MAP

1/4	2/4
3/4	4/4

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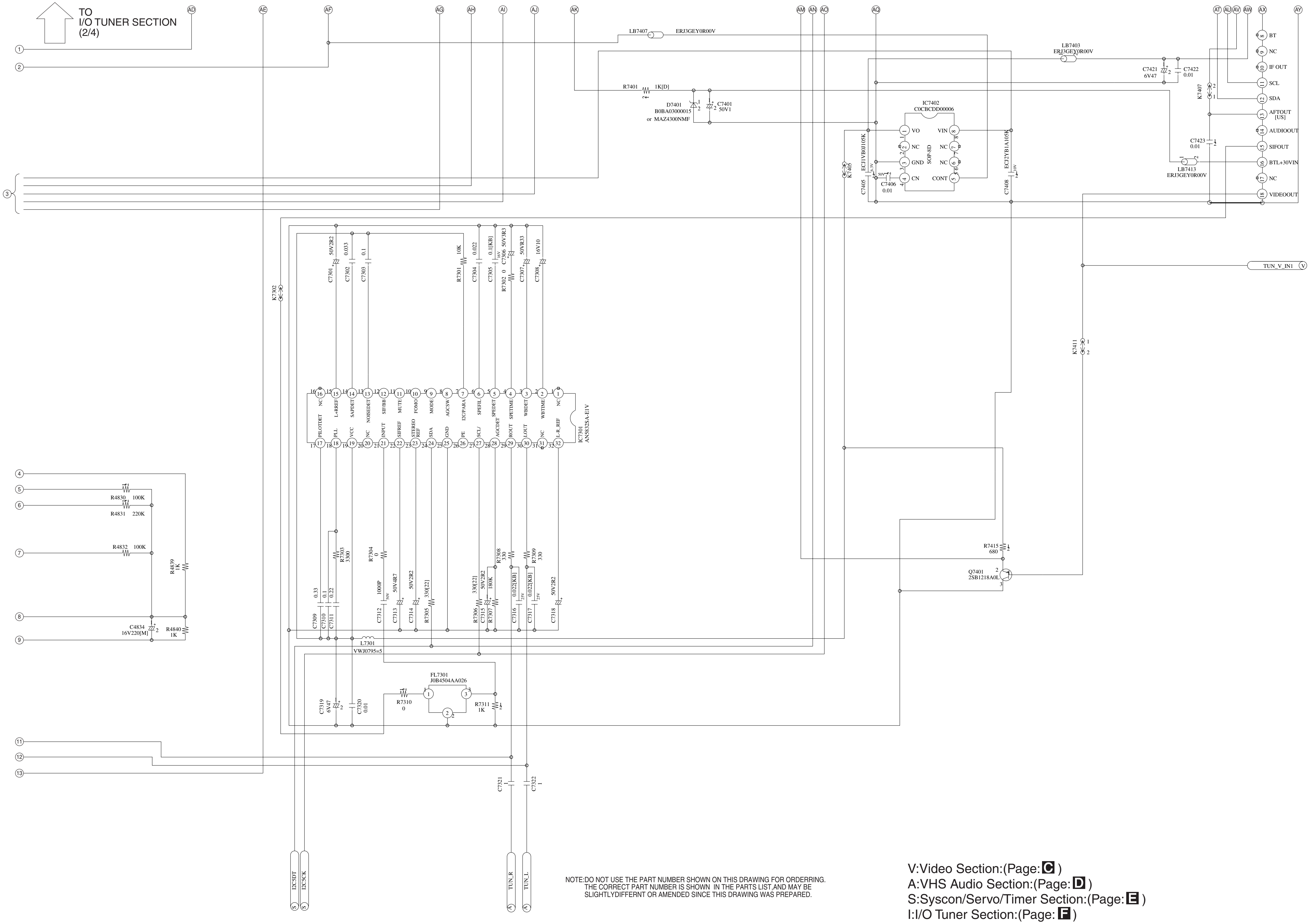
DMR-EH75VP
I/O Tuner(3/4) Section
(Main P.C.B.(4/4))
Schematic Diagram(I)


TO
I/O TUNER SECTION
(2/4)
AD
AE
AF
AG
AH
AI
AJ
AK
AM
AN
AO
AQ
AT
AU
AV
AW
AX
AY
LB7407
ERJ3GEY0R00V
R7401
1K[D]
D7401
B0BA03000015
or MAZ4300NMF
C7401
50V1
LB7403
ERJ3GEY0R00V
C7421
6V47
C7422
0.01
K7407
IC7402
C0CBCDD00006
VO
NC
GND
CN
VIN
NC
NC
CONT
SOP-8D
EC31VB0J105K
C7405
K7405
C7406
0.01
EC32YB1A105K
C7408
C7423
0.01
LB7413
ERJ3GEY0R00V
BT
NC
IF OUT
SCL
SDA
AFTOUT
[US]
AUDIOOUT
SIFOUT
BTL+30VIN
NC
VIDEOOUT
TUN_V_IN1
V
K7302
C7301
50V2R2
C7302
0.033
C7303
0.1
R7301
10K
C7304
0.022
C7305
0.1[KB]
C7306
50V3R3
R7302
0
C7307
50VR33
C7308
16V10
NC
L+RREF
SAPDET
NOISEDET
SIF/BB
MUTE
FOMO
MODE
AGCSW
I2CPARA
SPEFIL
SPEDET
SPETIME
WBDET
WBTIME
NC
PILOTDET
PLL
VCC
NC
INPUT
SIFREF
STEREO REF
SDA
GND
PE
SCL/
AGCDET
ROUT
LOUT
NC
L-R_REF
IC7301
AN5832SA-E1V
K7411
R4830
100K
R4831
220K
R4832
100K
R4839
1K
C4834
16V220[M]
R4840
1K
R7303
3300
R7304
0
R7308
330
R7309
330
C7309
0.33
C7310
0.1
C7311
0.22
C7312
1000P
C7313
50V4R7
C7314
50V2R2
R7305
33[22]
R7306
330[22]
C7315
50V2R2
R7307
180K
C7316
0.022[KB]
C7317
0.022[KB]
C7318
50V2R2
L7301
VWJ0795=5
FL7301
J0B4504AA026
R7310
0
R7311
1K
C7319
6V47
C7320
0.01
R7415
680
Q7401
2SB1218A0L
C7321
C7322
I2CSDT
I2CSCK
TUN_R
TUN_L
S
A

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SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

V:Video Section:(Page: C)
A:VHS Audio Section:(Page: D)
S:Syscon/Servo/Timer Section:(Page: E)
I:I/O Tuner Section:(Page: F)

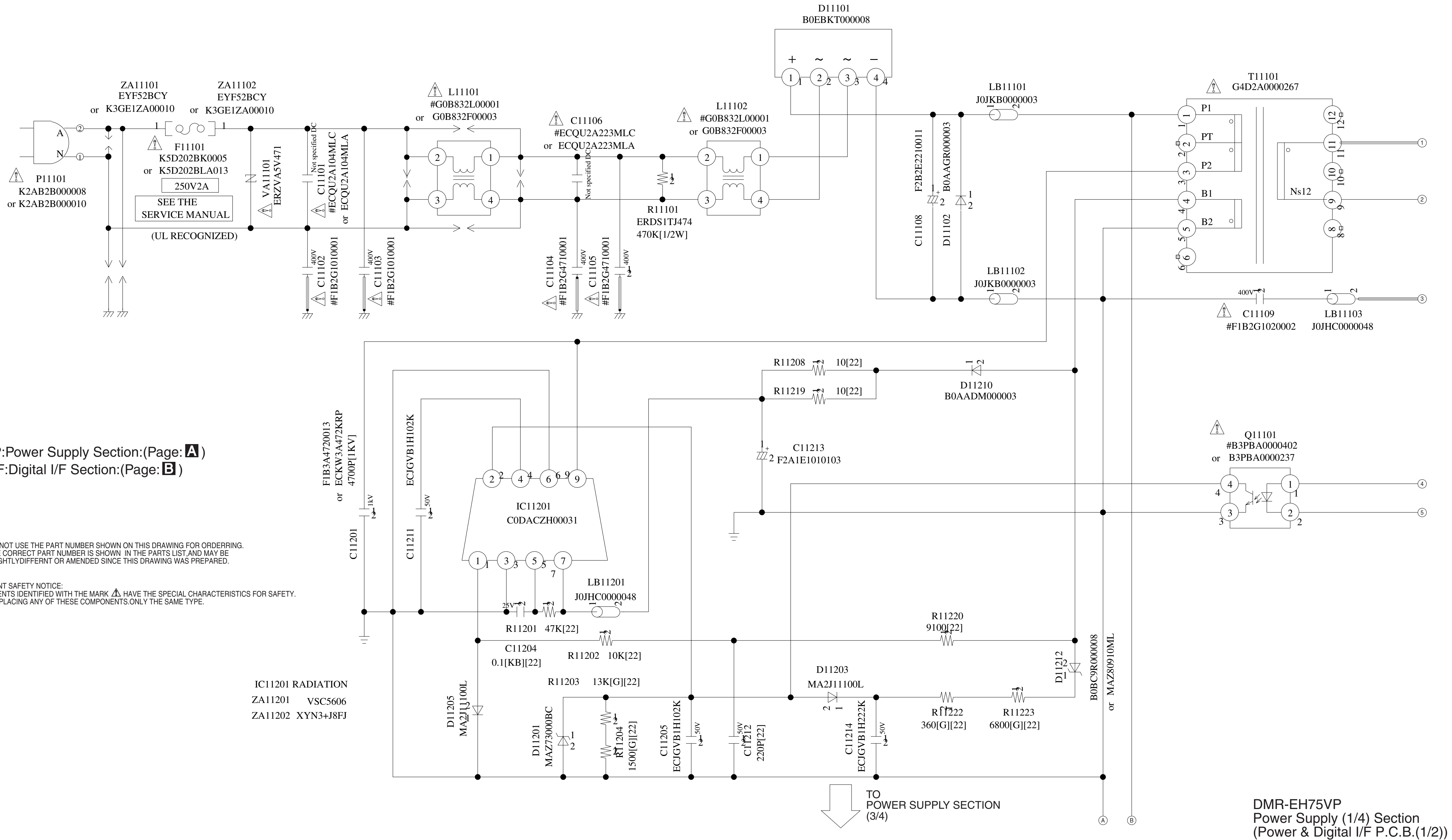
LOCATION MAP

1/4	2/4
3/4	4/4

DMR-EH75VP
I/O Tuner(4/4) Section
(Main P.C.B.(4/4))
Schematic Diagram(I)

LOCATION MAP

1/4	2/4
3/4	4/4


C
B
A
1
2
3
4
5
P11101
K2AB2B000008
or K2AB2B000010
A
N
ZA11101
EYF52BCY
or K3GE1ZA00010
ZA11102
EYF52BCY
or K3GE1ZA00010
F11101
K5D202BK0005
or K5D202BLA013
250V2A
SEE THE
SERVICE MANUAL
(UL RECOGNIZED)
VA11101
ERZVA5V471
C11101
#ECQU2A104MLC
or ECQU2A104MLA
Not specified DC
C11102
#F1B2G1010001
400V
C11103
#F1B2G1010001
400V
L11101
#G0B832L00001
or G0B832F00003
C11106
#ECQU2A223MLC
or ECQU2A223MLA
Not specified DC
C11104
#F1B2G4710001
400V
C11105
#F1B2G4710001
400V
R11101
ERDS1TJ474
470K[1/2W]
L11102
#G0B832L00001
or G0B832F00003
D11101
B0EBKT000008
+
~
~
−
C11108
F2B2E2210011
D11102
B0AAGR000003
LB11101
J0JKB0000003
LB11102
J0JKB0000003
T11101
G4D2A0000267
P1
PT
P2
B1
B2
Ns12
C11109
#F1B2G1020002
400V
LB11103
J0JHC0000048
R11208
10[22]
R11219
10[22]
D11210
B0AADM000003
C11213
F2A1E1010103
Q11101
#B3PBA0000402
or B3PBA0000237
C11201
F1B3A4720013
or ECKW3A472KRP
4700P[1KV]
1kV
C11211
ECJGVB1H102K
50V
IC11201
C0DACZH00031
LB11201
J0JHC0000048
25V
R11201 47K[22]
C11204
0.1[KB][22]
R11202 10K[22]
R11203 13K[G][22]
R11220
9100[22]
D11203
MA2J11100L
D11212
B0BC9R000008
or MAZ80910ML
D11205
MA2J11100L
D11201
MAZ73000BC
R11204
1500[G][22]
C11205
ECJGVB1H102K
50V
C11212
220P[22]
50V
C11214
ECJGVB1H222K
50V
R11222
360[G][22]
R11223
6800[G][22]
IC11201 RADIATION
ZA11201 VSC5606
ZA11202 XYN3+J8FJ
TO
POWER SUPPLY SECTION
(3/4)
①
②
③
④
⑤
Ⓐ
Ⓑ

P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
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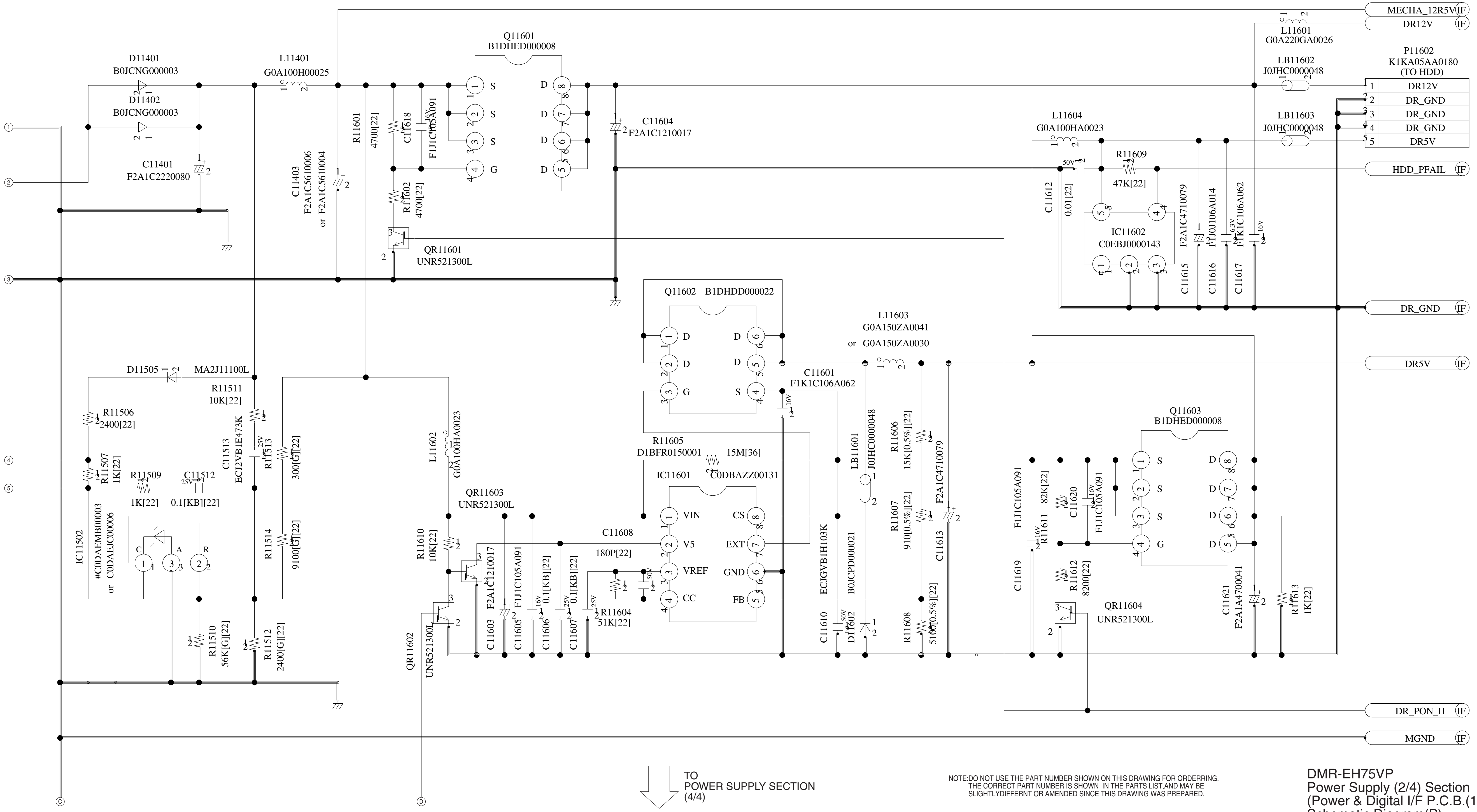
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

DMR-EH75VP
Power Supply (1/4) Section
(Power & Digital I/F P.C.B.(1/2))
Schematic Diagram(P)

P:Power Supply Section:(Page: A)
IF:Digital I/F Section:(Page: B)

LOCATION MAP

1/4	2/4
3/4	4/4



D11401
B0JCNG000003
D11402
B0JCNG000003
C11401
F2A1C2220080
L11401
G0A100H00025
C11403
F2A1C5610006
or F2A1C5610004
R11601
4700[22]
C11618
F1J1C105A091
R11602
4700[22]
QR11601
UNR521300L
Q11601
B1DHED000008
S
G
D
C11604
F2A1C1210017
MECHA_12R5V
DR12V
IF
L11601
G0A220GA0026
P11602
K1KA05AA0180
(TO HDD)
LB11602
J0JHC0000048
LB11603
J0JHC0000048
DR12V
DR_GND
DR_GND
DR_GND
DR5V
L11604
G0A100HA0023
R11609
47K[22]
HDD_PFAIL
C11612
0.01[22]
IC11602
C0EBJ0000143
C11615
F2A1C4710079
C11616
F1J0J106A014
C11617
F1K1C106A062
DR_GND
Q11602 B1DHDD000022
L11603
G0A150ZA0041
or G0A150ZA0030
C11601
F1K1C106A062
DR5V
D11505
MA2J11100L
R11511
10K[22]
R11506
2400[22]
C11513
ECJ2VB1E473K
R11513
300[G][22]
R11507
1K[22]
R11509
1K[22]
C11512
0.1[KB][22]
IC11502
#C0DAEMB00003
or C0DAEJC00006
C
A
R
R11514
9100[G][22]
R11510
56K[G][22]
R11512
2400[G][22]
L11602
G0A100HA0023
QR11603
UNR521300L
R11610
10K[22]
QR11602
UNR521300L
C11603
F2A1C1210017
C11605
F1J1C105A091
C11606
0.1[KB][22]
C11607
0.1[KB][22]
R11604
51K[22]
C11608
180P[22]
R11605
D1BFR0150001
15M[36]
IC11601
C0DBAZZ00131
VIN
V5
VREF
CC
CS
EXT
GND
FB
C11610
ECJGVB1H103K
D11602
B0JCPD000021
LB11601
J0JHC0000048
R11606
15K[0.5%][22]
R11607
910[0.5%][22]
R11608
5100[0.5%][22]
C11613
F2A1C4710079
Q11603
B1DHED000008
C11619
F1J1C105A091
R11611
82K[22]
C11620
F1J1C105A091
R11612
8200[22]
QR11604
UNR521300L
C11621
F2A1A4700041
R11613
1K[22]
DR_PON_H
MGND
25V
50V
16V
6.3V
①
②
③
④
⑤
Ⓒ
Ⓓ

TO
POWER SUPPLY SECTION
(4/4)

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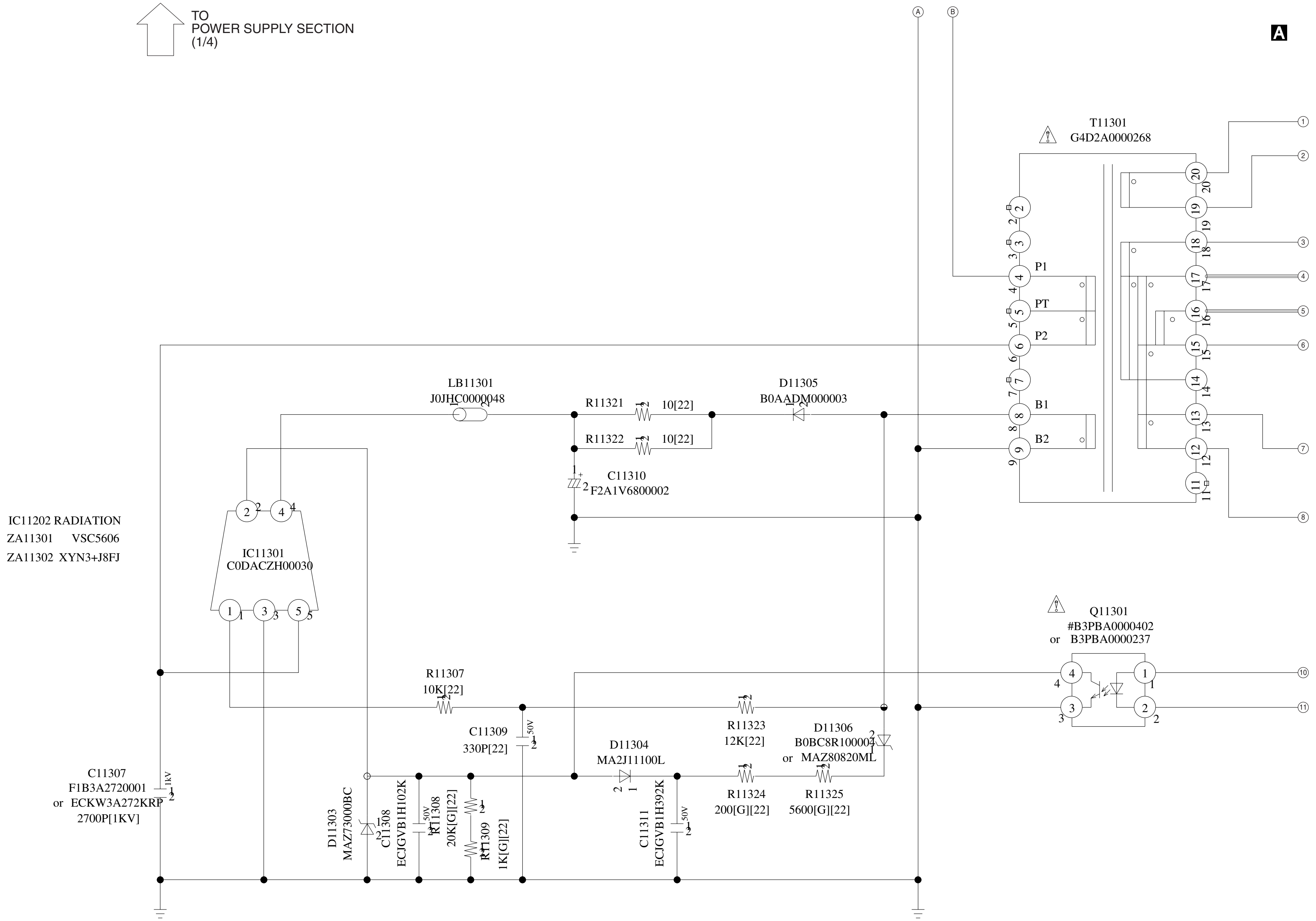
DMR-EH75VP
Power Supply (2/4) Section
(Power & Digital I/F P.C.B.(1/2))
Schematic Diagram(P)

A


TO
POWER SUPPLY SECTION
(1/4)
Ⓐ
Ⓑ
T11301
G4D2A0000268
P1
PT
P2
B1
B2
①
②
③
④
⑤
⑥
⑦
⑧
LB11301
J0JHC0000048
R11321
10[22]
R11322
10[22]
D11305
B0AADM000003
C11310
F2A1V6800002
IC11202 RADIATION
ZA11301 VSC5606
ZA11302 XYN3+J8FJ
IC11301
C0DACZH00030
Q11301
#B3PBA0000402
or B3PBA0000237
⑩
⑪
R11307
10K[22]
C11309
330P[22]
50V
R11323
12K[22]
D11306
B0BC8R100004
or MAZ80820ML
D11304
MA2J11100L
R11324
200[G][22]
R11325
5600[G][22]
C11307
F1B3A2720001
or ECKW3A272KRP
2700P[1KV]
1kV
D11303
MAZ73000BC
C11308
ECJGVB1H102K
R11308
20K[G][22]
R11309
1K[G][22]
C11311
ECJGVB1H392K

C

B

A

LOCATION MAP

1/4	2/4
3/4	4/4

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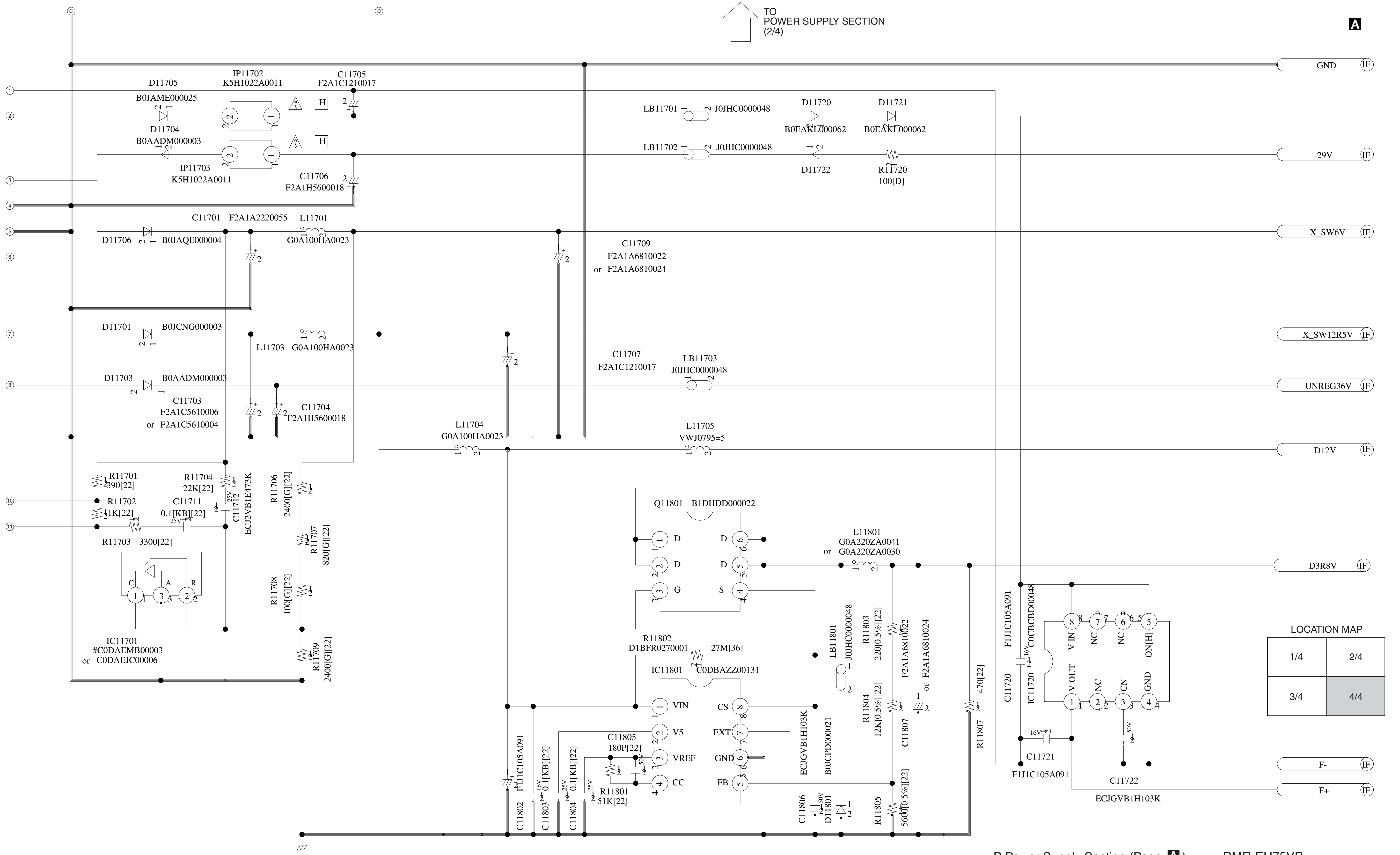
P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

DMR-EH75VP
Power Supply (3/4) Section
(Power & Digital I/F P.C.B.(1/2))
Schematic Diagram(P)

1 2 3 4 5



TO
POWER SUPPLY SECTION
(2/4)
A
C
D
GND
IF
D11705
B0JAME000025
IP11702
K5H1022A0011
C11705
F2A1C1210017
H
D11704
B0AADM000003
IP11703
K5H1022A0011
C11706
F2A1H5600018
LB11701
J0JHC0000048
D11720
B0EAKL000062
D11721
B0EAKL000062
LB11702
J0JHC0000048
D11722
R11720
100[D]
-29V
C11701
F2A1A2220055
L11701
G0A100HA0023
D11706
B0JAQE000004
X_SW6V
C11709
F2A1A6810022
or F2A1A6810024
D11701
B0JCNG000003
L11703
G0A100HA0023
X_SW12R5V
C11707
F2A1C1210017
LB11703
J0JHC0000048
D11703
B0AADM000003
UNREG36V
C11703
F2A1C5610006
or F2A1C5610004
C11704
F2A1H5600018
L11704
G0A100HA0023
L11705
VWJ0795=5
D12V
R11701
390[22]
R11704
22K[22]
C11712
ECJ2VB1E473K
25V
R11706
2400[G][22]
R11702
1K[22]
C11711
0.1[KB][22]
R11703
3300[22]
R11707
820[G][22]
C
A
R
R11708
100[G][22]
IC11701
#C0DAEMB00003
or C0DAEJC00006
R11709
2400[G][22]
Q11801
B1DHDD000022
D
D
D
D
G
S
L11801
G0A220ZA0041
or G0A220ZA0030
D3R8V
R11802
D1BFR0270001
27M[36]
IC11801
C0DBAZZ00131
VIN
CS
V5
EXT
VREF
GND
CC
FB
C11805
180P[22]
R11801
51K[22]
C11802
F1J1C105A091
C11803
0.1[KB][22]
C11804
0.1[KB][22]
16V
25V
50V
ECJGVB1H103K
C11806
B0JCPD000021
D11801
LB11801
J0JHC0000048
R11803
220[0.5%][22]
R11804
12K[0.5%][22]
R11805
560[0.5%][22]
F2A1A6810022
or F2A1A6810024
C11807
R11807
470[22]
C11720
F1J1C105A091
IC11720
C0CBCBD00048
V IN
NC
NC
ON[H]
V OUT
NC
CN
GND
C11721
F1J1C105A091
C11722
ECJGVB1H103K
F-
F+
LOCATION MAP
1/4
2/4
3/4
4/4
6
7
8
9
10

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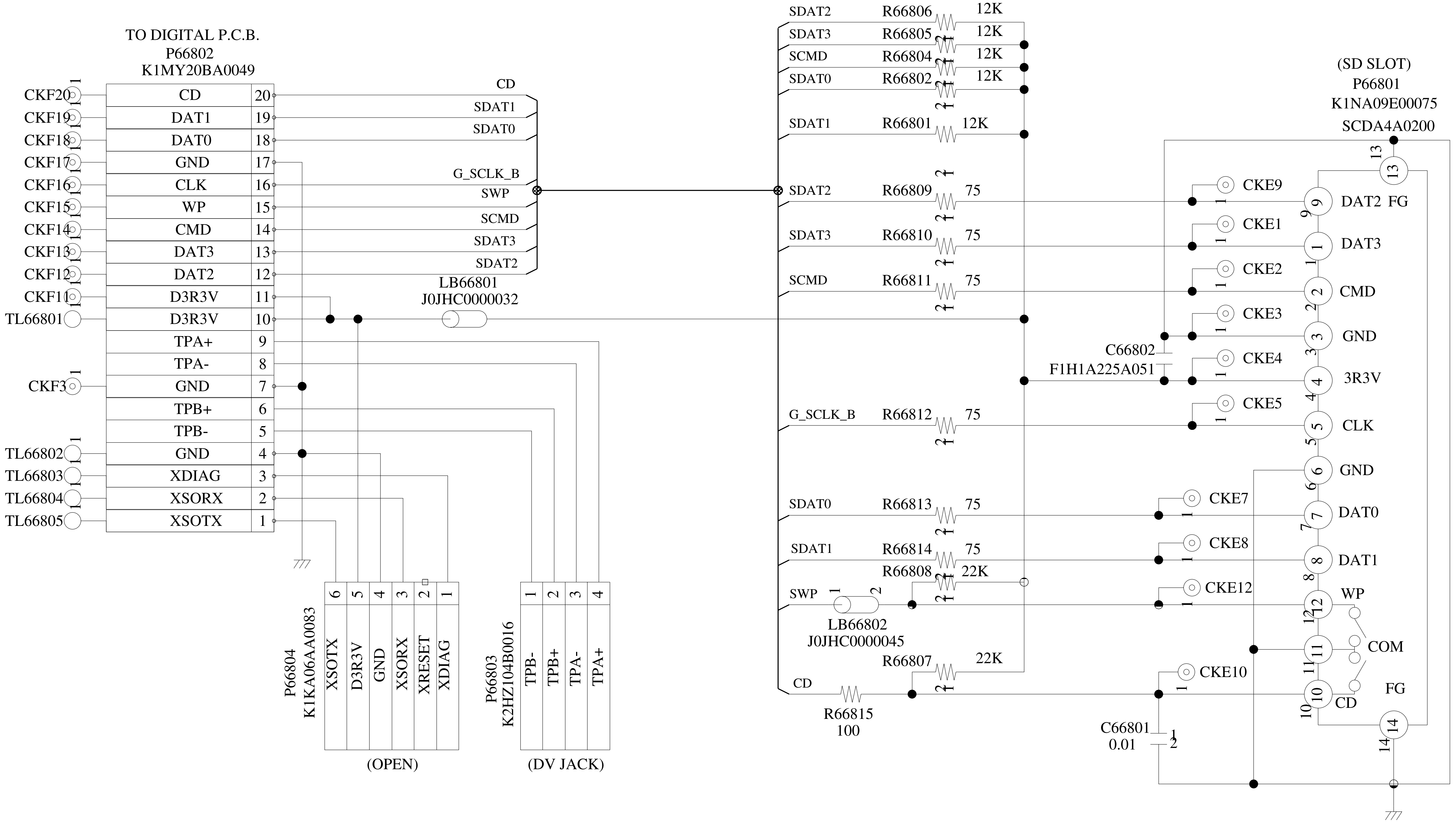
P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

DMR-EH75VP
Power Supply (4/4) Section
(Power & Digital I/F P.C.B.(1/2))
Schematic Diagram(P)


TO DIGITAL P.C.B.
P66802
K1MY20BA0049
CKF20 CKF19 CKF18 CKF17 CKF16 CKF15 CKF14 CKF13 CKF12 CKF11
TL66801 CKF3 TL66802 TL66803 TL66804 TL66805
20 CD
19 DAT1
18 DAT0
17 GND
16 CLK
15 WP
14 CMD
13 DAT3
12 DAT2
11 D3R3V
10 D3R3V
9 TPA+
8 TPA-
7 GND
6 TPB+
5 TPB-
4 GND
3 XDIAG
2 XSORX
1 XSOTX
CD SDAT1 SDAT0 G_SCLK_B SWP SCMD SDAT3 SDAT2
LB66801
J0JHC0000032
P66804
K1KA06AA0083
6 XSOTX
5 D3R3V
4 GND
3 XSORX
2 XRESET
1 XDIAG
(OPEN)
P66803
K2HZ104B0016
1 TPB-
2 TPB+
3 TPA-
4 TPA+
(DV JACK)
SDAT2 R66806 12K
SDAT3 R66805 12K
SCMD R66804 12K
SDAT0 R66802 12K
SDAT1 R66801 12K
SDAT2 R66809 75
SDAT3 R66810 75
SCMD R66811 75
G_SCLK_B R66812 75
SDAT0 R66813 75
SDAT1 R66814 75
R66808 22K
SWP
LB66802
J0JHC0000045
R66807 22K
CD
R66815
100
C66802
F1H1A225A051
C66801
0.01
(SD SLOT)
P66801
K1NA09E00075
SCDA4A0200
CKE9 CKE1 CKE2 CKE3 CKE4 CKE5 CKE7 CKE8 CKE12 CKE10
9 DAT2 FG
1 DAT3
2 CMD
3 GND
4 3R3V
5 CLK
6 GND
7 DAT0
8 DAT1
12 WP
11 COM
10 CD
13
14 FG

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
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DMR-EH75VP
SD Card/DV Jack
Schematic Diagram

LOCATION MAP

1/4	2/4
3/4	4/4

V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

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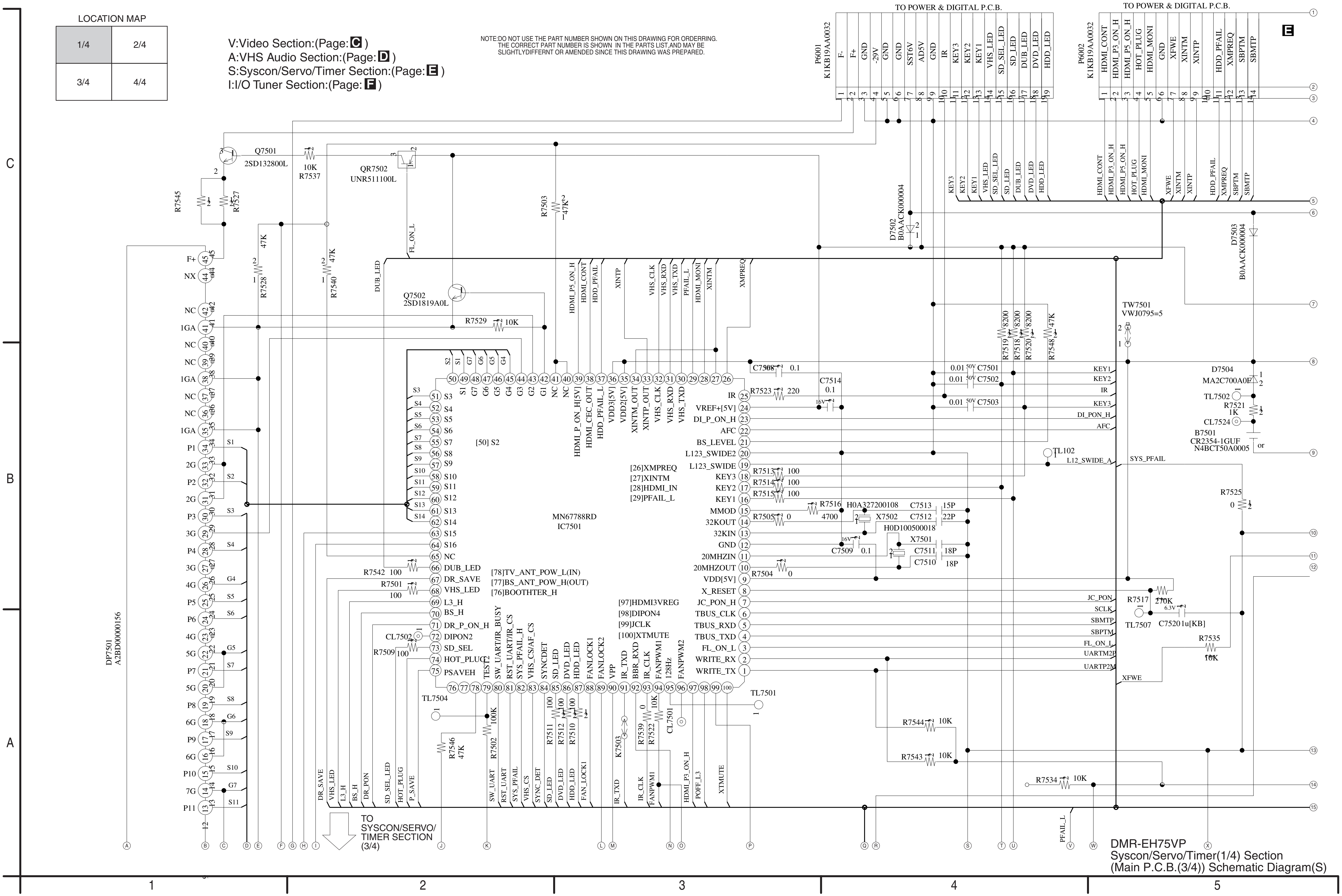
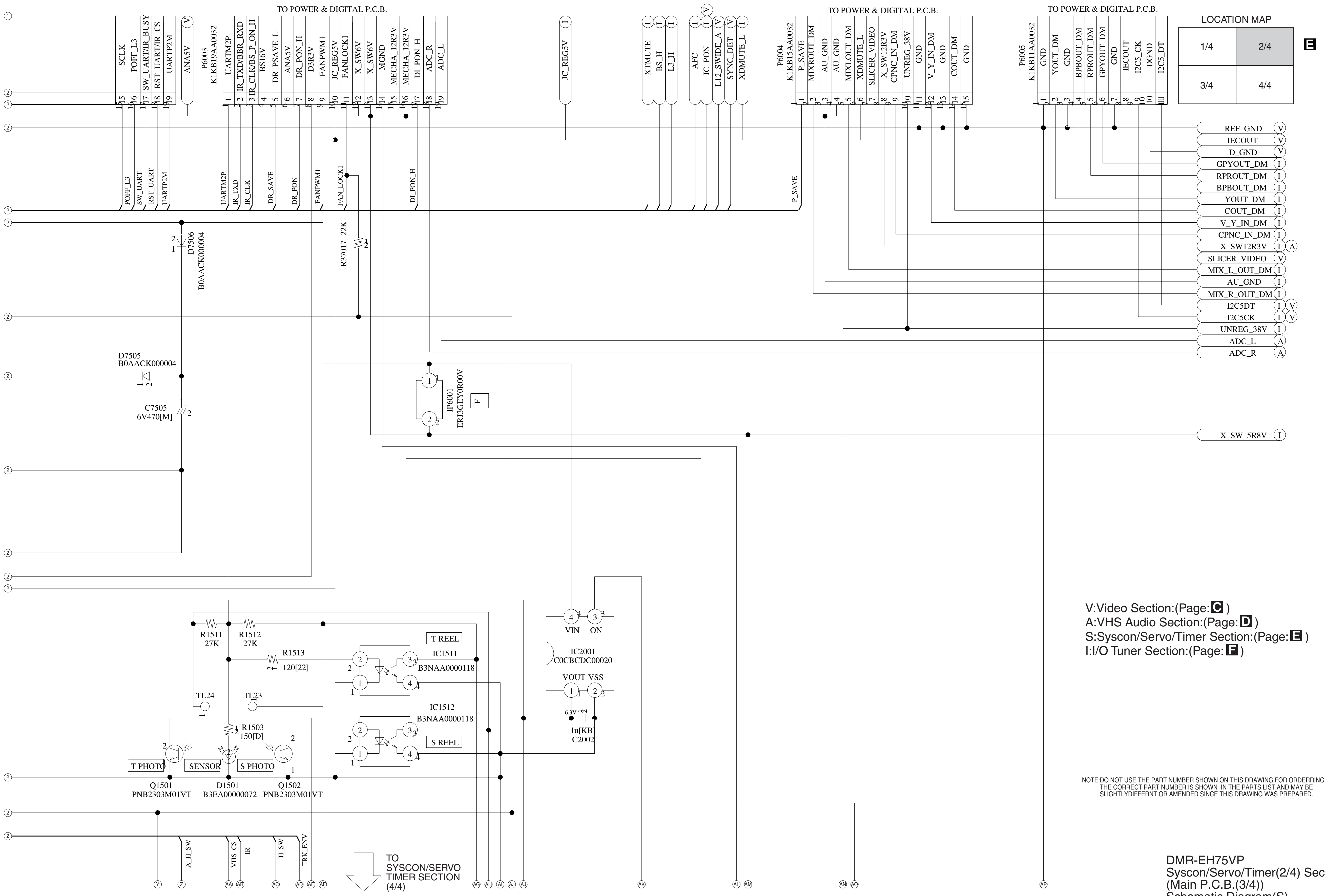

E
C
B
A
1
2
3
4
5
TO POWER & DIGITAL P.C.B.
P6001
K1KB19AA0032
F-
F+
GND
-29V
GND
GND
SST6V
AD5V
GND
IR
KEY3
KEY2
KEY1
VHS_LED
SD_SEL_LED
SD_LED
DUB_LED
DVD_LED
HDD_LED
TO POWER & DIGITAL P.C.B.
P6002
K1KB19AA0032
HDMI_CONT
HDMI_P3_ON_H
HDMI_P5_ON_H
HOT_PLUG
HDMI_MONI
GND
XFWE
XINTM
XINTP
HDD_PFAIL
XMPREQ
SBPTM
SBMTP
Q7501
2SD132800L
R7537
10K
QR7502
UNR511100L
R7545
R7527
R7503
47K
FL_ON_L
DUB_LED
R7528
47K
R7540
47K
Q7502
2SD1819A0L
R7529
10K
D7502
B0AACK000004
D7503
B0AACK000004
DP7501
A2BD0000156
F+
NX
NC
1GA
P1
2G
P2
P3
3G
P4
4G
P5
P6
5G
P7
P8
6G
P9
P10
7G
P11
S1
S2
S3
S4
G4
S5
S6
G5
S7
S8
G6
S9
S10
G7
S11
MN67788RD
IC7501
[50] S2
[26]XMPREQ
[27]XINTM
[28]HDMI_IN
[29]PFAIL_L
[78]TV_ANT_POW_L(IN)
[77]BS_ANT_POW_H(OUT)
[76]BOOTHTER_H
[97]HDMI3VREG
[98]DIPON4
[99]JCLK
[100]XTMUTE
HDMI_P_ON_H[5V]
HDMI_CEC_OUT
HDD_PFAIL_L
VDD3[5V]
VDD2[5V]
XINTM_OUT
XINTP_OUT
VHS_CLK
VHS_RXD
VHS_TXD
HDMI_P5_ON_H
HDMI_CONT
HDD_PFAIL
XINTP
PFAIL_L
HDMI_MONI
XINTM
XMPREQ
IR
VREF+[5V]
DI_P_ON_H
AFC
BS_LEVEL
L123_SWIDE2
L123_SWIDE
KEY3
KEY2
KEY1
MMOD
32KOUT
32KIN
GND
20MHZIN
20MHZOUT
VDD[5V]
X_RESET
JC_PON_H
TBUS_CLK
TBUS_RXD
TBUS_TXD
FL_ON_L
WRITE_RX
WRITE_TX
S15
S16
NC
DUB_LED
DR_SAVE
VHS_LED
L3_H
BS_H
DR_P_ON_H
DIPON2
SD_SEL
HOT_PLUG
PSAVEH
TEST
SW_UART/IR_BUSY
RST_UART/IR_CS
SYS_PFAIL_H
VHS_CS/AF_CS
SYNCDET
SD_LED
DVD_LED
HDD_LED
FANLOCK1
FANLOCK2
VPP
IR_TXD
BBR_RXD
IR_CLK
FANPWM1
128Hz
FANPWM2
C7508
0.1
C7514
0.1
R7523
220
R7513
100
R7514
100
R7515
100
R7516
4700
H0A327200108
X7502
C7513
15P
C7512
22P
R7505
0
H0D100500018
X7501
C7509
0.1
C7511
18P
C7510
18P
R7504
0
C7501
C7502
C7503
0.01
50V
16V
R7519
R7518
R7520
8200
R7548
47K
TW7501
VWJ0795=5
D7504
MA2C700A0E
TL7502
R7521
1K
CL7524
B7501
CR2354-1GUF
N4BCT50A0005
or
TL102
L12_SWIDE_A
SYS_PFAIL
R7525
0
JC_PON
SCLK
SBMTP
SBPTM
FL_ON_L
UARTM2P
UARTP2M
XFWE
R7517
270K
TL7507
C7520
1u[KB]
6.3V
R7535
10K
R7542
100
R7501
100
CL7502
R7509
100
TL7504
R7546
47K
R7502
100K
R7511
R7512
R7510
100
K7503
R7539
0
R7522
10K
CL7501
TL7501
R7544
10K
R7543
10K
R7534
10K
DR_SAVE
VHS_LED
L3_H
BS_H
DR_PON
SD_SEL_LED
HOT_PLUG
P_SAVE
SW_UART
RST_UART
SYS_PFAIL
VHS_CS
SYNC_DET
SD_LED
DVD_LED
HDD_LED
FAN_LOCK1
IR_TXD
IR_CLK
FANPWM1
HDMI_P3_ON_H
POFF_L3
XTMUTE
PFAIL_L
TO SYSCON/SERVO/ TIMER SECTION (3/4)
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮

DMR-EH75VP
Syscon/Servo/Timer(1/4) Section
(Main P.C.B.(3/4)) Schematic Diagram(S)


TO POWER & DIGITAL P.C.B.
SCLK
POFF_L3
SW_UART/IR_BUSY
RST_UART/IR_CS
UARTP2M
ANA5V
P6003
K1KB19AA0032
UARTM2P
IR_TXD/BBR_RXD
IR_CLK/BS_P_ON_H
BSI6V
DR_PSAVE_L
ANA5V
DR_PON_H
D3R3V
FANPWM1
JC_REG5V
FANLOCK1
X_SW6V
X_SW6V
MGND
MECHA_12R3V
MECHA_12R3V
DI_PON_H
ADC_R
ADC_L
JC_REG5V
XTMUTE
BS_H
L3_H
AFC
JC_PON
L12_SWIDE_A
SYNC_DET
XDMUTE_L
P6004
K1KB15AA0032
P_SAVE
MIXROUT_DM
AU_GND
AU_GND
MIXLOUT_DM
XDMUTE_L
SLICER_VIDEO
X_SW12R3V
CPNC_IN_DM
UNREG_38V
GND
V_Y_IN_DM
GND
COUT_DM
GND
P6005
K1KB11AA0032
GND
YOUT_DM
GND
BPBOUT_DM
RPROUT_DM
GPYOUT_DM
GND
IECOUT
I2C5_CK
DGND
I2C5_DT
LOCATION MAP
1/4
2/4
3/4
4/4
E
REF_GND
IECOUT
D_GND
GPYOUT_DM
RPROUT_DM
BPBOUT_DM
YOUT_DM
COUT_DM
V_Y_IN_DM
CPNC_IN_DM
X_SW12R3V
SLICER_VIDEO
MIX_L_OUT_DM
AU_GND
MIX_R_OUT_DM
I2C5DT
I2C5CK
UNREG_38V
ADC_L
ADC_R
X_SW_5R8V
POFF_L3
SW_UART
RST_UART
UARTP2M
UARTM2P
IR_TXD
IR_CLK
DR_SAVE
DR_PON
FANPWM1
FAN_LOCK1
DI_PON_H
P_SAVE
D7506
B0AACK000004
R37017 22K
D7505
B0AACK000004
C7505
6V470[M]
IP6001
ERJ3GEY0R00V
F
R1511
27K
R1512
27K
R1513
120[22]
T REEL
IC1511
B3NAA0000118
IC1512
B3NAA0000118
S REEL
TL24
TL23
R1503
150[D]
T PHOTO
SENSOR
S PHOTO
Q1501
PNB2303M01VT
D1501
B3EA00000072
Q1502
PNB2303M01VT
VIN
ON
IC2001
C0CBCDC00020
VOUT VSS
6.3V
1u[KB]
C2002
A_H_SW
VHS_CS
IR
H_SW
TRK_ENV
TO
SYSCON/SERVO
TIMER SECTION
(4/4)
Y
Z
AA
AB
AC
AD
AE
AF
AG
AH
AI
AJ
AJ
AK
AL
AM
AN
AO
AP

V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

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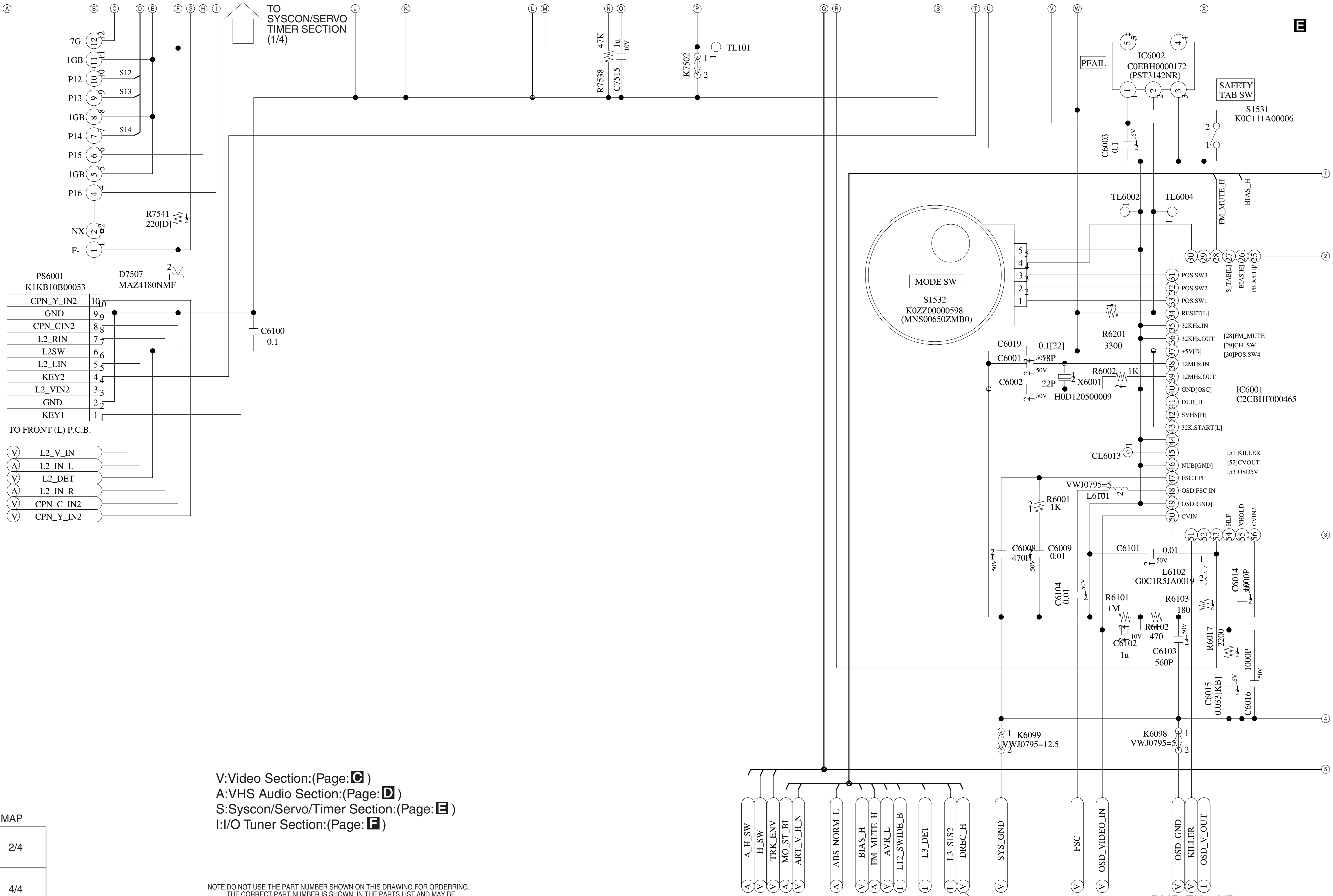
DMR-EH75VP
Syscon/Servo/Timer(2/4) Section
(Main P.C.B.(3/4))
Schematic Diagram(S)


E
TO SYSCON/SERVO TIMER SECTION (1/4)
7G
1GB
P12
P13
1GB
P14
P15
1GB
P16
NX
F-
S12
S13
S14
R7541 220[D]
D7507 MAZ4180NMF
PS6001 K1KB10B00053
CPN_Y_IN2
GND
CPN_CIN2
L2_RIN
L2SW
L2_LIN
KEY2
L2_VIN2
GND
KEY1
TO FRONT (L) P.C.B.
L2_V_IN
L2_IN_L
L2_DET
L2_IN_R
CPN_C_IN2
CPN_Y_IN2
C6100 0.1
R7538 47K
C7515 1u 10V
K7502
TL101
IC6002 C0EBH0000172 (PST3142NR)
PFAIL
SAFETY TAB SW
S1531 K0C111A00006
C6003 0.1 16V
TL6002
TL6004
FM_MUTE_H
BIAS_H
MODE SW
S1532 K0ZZ00000598 (MNS00650ZMB0)
POS.SW3
POS.SW2
POS.SW1
RESET[L]
32KHz.IN
32KHz.OUT
+5V[D]
12MHz.IN
12MHz.OUT
GND[OSC]
DUB_H
SVHS[H]
32K.START[L]
NUB[GND]
FSC.LPF
OSD.FSC IN
OSD[GND]
CVIN
S_TAB[L]
BIAS[H]
PB X5[H]
[28]FM_MUTE
[29]CH_SW
[30]POS.SW4
[51]KILLER
[52]CVOUT
[53]OSD5V
HLF
VHOLD
CVIN2
IC6001 C2CBHF000465
R6201 3300
C6019 0.1[22]
C6001 18P 50V
C6002 22P 50V
R6002 1K
X6001 H0D120500009
CL6013
VWJ0795=5
L6101
R6001 1K
C6008 470P 50V
C6009 0.01 50V
C6101 0.01 50V
L6102 G0C1R5JA0019
C6104 0.01 50V
R6101 1M
R6103 180
R6102 470
C6102 1u 10V
C6103 560P 50V
C6014 1000P
R6017 2200
C6015 0.033[KB] 16V
C6016 1000P 50V
K6099 VWJ0795=12.5
K6098 VWJ0795=5
A_H_SW
H_SW
TRK_ENV
MO_ST_BI
ART_V_H_N
ABS_NORM_L
BIAS_H
FM_MUTE_H
AVR_L
L12_SWIDE_B
L3_DET
L3_S1S2
DREC_H
SYS_GND
FSC
OSD_VIDEO_IN
OSD_GND
KILLER
OSD_V_OUT
C
B
A
1
2
3
4
5

V:Video Section:(Page: C)
A:VHS Audio Section:(Page: D)
S:Syscon/Servo/Timer Section:(Page: E)
I:I/O Tuner Section:(Page: F)

LOCATION MAP

1/4	2/4
3/4	4/4

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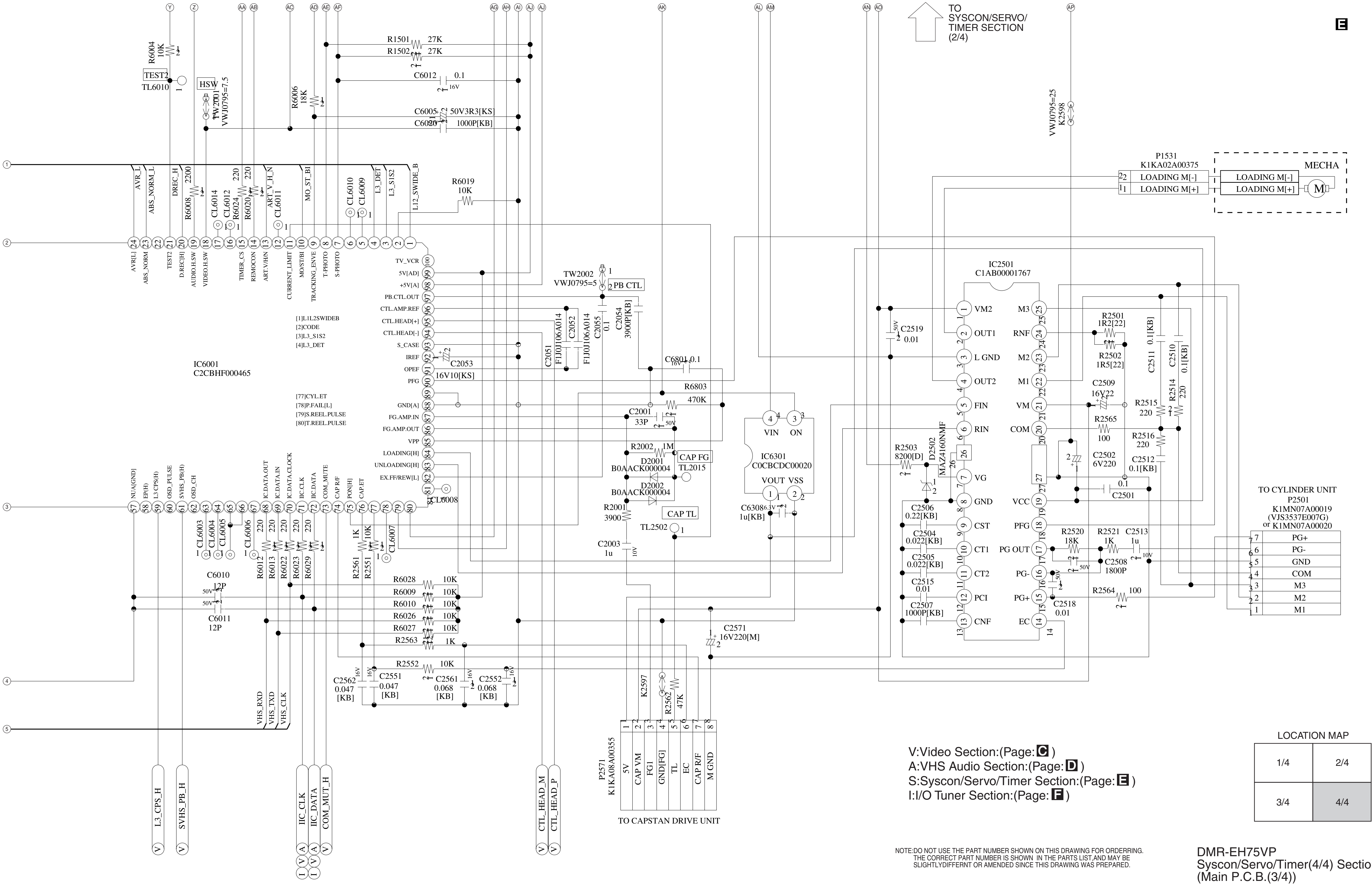
DMR-EH75VP
Syscon/Servo/Timer(3/4) Section
(Main P.C.B.(3/4))
Schematic Diagram(S)


TO SYSCON/SERVO/ TIMER SECTION (2/4)
Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP
R6004 10K
TEST2
TL6010
HSW
TW2001
VWJ0795=7.5
R6006 18K
R1501 27K
R1502 27K
C6012 0.1 16V
C6005 50V3R3[KS]
C6020 1000P[KB]
VWJ0795=25
K2598
P1531
K1KA02A00375
LOADING M[-]
LOADING M[+]
MECHA
M
AVR_L
ABS_NORM_L
DREC_H
R6008 2200
CL6014
CL6012
R6024 220
R6020 220
ART_V_H_N
CL6011
MO_ST_BI
CL6010
CL6009
L3_DET
L3_S1S2
L12_SWIDE_B
R6019 10K
AVR[L]
ABS_NORM
TEST2
D.REC[H]
AUDIO.H.SW
VIDEO.H.SW
TIMER_CS
REMOCON
ART.V.H/N
CURRENT_LIMIT
MO/ST/BI
TRACKING_ENVE
T-PHOTO
S-PHOTO
TV_VCR
5V[AD]
+5V[A]
PB.CTL.OUT
CTL.AMP.REF
CTL.HEAD[+]
CTL.HEAD[-]
S_CASE
IREF
OPEF
PFG
GND[A]
FG.AMP.IN
FG.AMP.OUT
VPP
LOADING[H]
UNLOADING[H]
EX.FF/REW[L]
CL6008
[1]L1L2SWIDEB
[2]CODE
[3]L3_S1S2
[4]L3_DET
IC6001
C2CBHF000465
[77]CYL.ET
[78]P.FAIL[L]
[79]S.REEL.PULSE
[80]T.REEL.PULSE
TW2002
VWJ0795=5
PB CTL
C2053 16V10[KS]
C2051 F1J0J106A014
C2052 F1J0J106A014
C2055 0.1
C2054 3900P[KB]
C6801 0.1 16V
R6803 470K
C2001 33P 50V
R2002 1M
CAP FG
TL2015
D2001 B0AACK000004
D2002 B0AACK000004
R2001 3900
CAP TL
TL2502
C2003 1u 10V
IC6301
C0CBCDC00020
VIN ON VOUT VSS
C6308 6.3V 1u[KB]
IC2501
C1AB00001767
VM2 OUT1 L GND OUT2 FIN RIN VG GND CST CT1 CT2 PCI CNF
M3 RNF M2 M1 VM COM VCC PFG PG OUT PG- PG+ EC
C2519 50V 0.01
R2501 1R2[22]
R2502 1R5[22]
C2511 0.1[KB]
C2510 0.1[KB]
C2509 16V22
R2515 220
R2514 220
R2565 100
R2516 220
C2502 6V220
C2512 0.1[KB]
0.1 C2501
R2503 8200[D]
D2502 MAZ4160NMF
C2506 0.22[KB]
C2504 0.022[KB]
C2505 0.022[KB]
C2515 0.01
C2507 1000P[KB]
R2520 18K
R2521 1K
C2513 1u 10V
C2508 1800P 50V
R2564 100
C2518 0.01
TO CYLINDER UNIT
P2501
K1MN07A00019
(VJS3537E007G)
or K1MN07A00020
PG+ PG- GND COM M3 M2 M1
NU/A[GND]
EP(H)
L3 CPS(H)
OSD_PULSE
SVHS_PB(H)
OSD_CH
IIC.DATA.OUT
IIC.DATA.IN
IIC.DATA.CLOCK
IIC.CLK
IIC.DATA
COM_MUTE
CAP R/F
PON[H]
CAP.ET
CL6003
CL6004
CL6005
CL6006
CL6007
C6010 12P 50V
C6011 12P 50V
R6012 220
R6013 220
R6022 220
R6023 220
R6029 220
R2561 1K
R2551 10K
R6028 10K
R6009 10K
R6010 10K
R6026 10K
R6027 10K
R2563 1K
R2552 10K
C2562 0.047 [KB] 16V
C2551 0.047 [KB] 16V
C2561 0.068 [KB] 16V
C2552 0.068 [KB] 16V
C2571 16V220[M]
K2597
R2562 47K
VHS_RXD
VHS_TXD
VHS_CLK
P2571
K1KA08A00355
5V CAP VM FG1 GND[FG] TL EC CAP R/F M GND
TO CAPSTAN DRIVE UNIT
L3_CPS_H
SVHS_PB_H
IIC_CLK
IIC_DATA
COM_MUT_H
CTL_HEAD_M
CTL_HEAD_P
V A I
① ② ③ ④ ⑤
6 7 8 9 10

V:Video Section:(Page: C)
A:VHS Audio Section:(Page: D)
S:Syscon/Servo/Timer Section:(Page: E)
I:I/O Tuner Section:(Page: F)

LOCATION MAP

1/4	2/4
3/4	4/4

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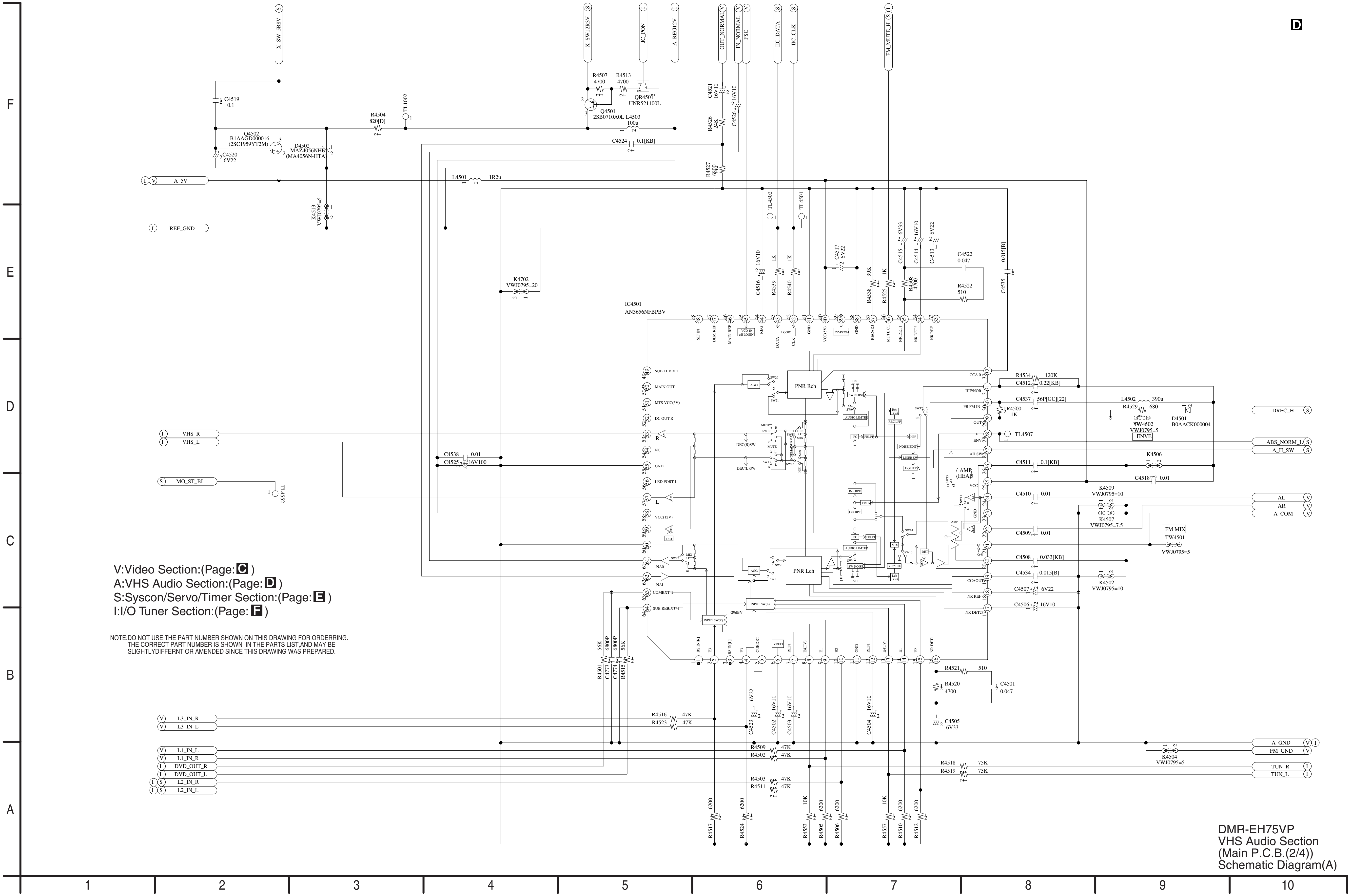
DMR-EH75VP
Syscon/Servo/Timer(4/4) Section
(Main P.C.B.(3/4))
Schematic Diagram(S)


X_SW_5R8V
X_SW12R3V
JC_PON
A_REG12V
OUT_NORMAL
IN_NORMAL
FSC
IIC_DATA
IIC_CLK
FM_MUTE_H
C4519 0.1
Q4502 B1AAGD000016 (2SC1959YT2M)
D4502 MAZ4056NHE (MA4056N-HTA)
C4520 6V22
R4504 820[D]
TL1002
R4507 4700
R4513 4700
QR4501 UNR521100L
Q4501 2SB0710A0L
L4503 100u
C4524 0.1[KB]
C4521 16V10
C4526 16V10
R4526 24K
R4527 6800
A_5V
L4501 1R2u
K4513 VWJ0795=5
REF_GND
K4702 VWJ0795=20
TL4502
TL4501
C4516 16V10
R4539 1K
R4540 1K
C4517 6V22
R4538 39K
R4525 1K
R4508 4700
C4515 6V33
C4514 16V10
C4513 6V22
C4522 0.047
R4522 510
C4535 0.015[B]
IC4501 AN3656NFBPBV
PNR Rch
PNR Lch
R4534 120K
C4512 0.22[KB]
C4537 56P[GC][22]
L4502 390u
R4529 680
R4500 1K
D4501 B0AACK000004
TW4502 VWJ0795=5
ENVE
DREC_H
TL4507
ABS_NORM_L
A_H_SW
K4506
C4511 0.1[KB]
C4518 0.01
K4509 VWJ0795=10
C4510 0.01
AL
AR
A_COM
K4507 VWJ0795=7.5
C4509 0.01
FM MIX
TW4501 VWJ0795=5
C4508 0.033[KB]
C4534 0.015[B]
K4502 VWJ0795=10
C4507 6V22
C4506 16V10
VHS_R
VHS_L
C4538 0.01
C4525 16V100
MO_ST_BI
TL4552
R4501 56K
C4773 6800P
C4774 6800P
R4515 56K
R4521 510
R4520 4700
C4501 0.047
C4505 6V33
L3_IN_R
L3_IN_L
R4516 47K
R4523 47K
C4523 6V22
C4502 16V10
C4503 16V10
C4504 16V10
L1_IN_L
L1_IN_R
DVD_OUT_R
DVD_OUT_L
L2_IN_R
L2_IN_L
R4509 47K
R4502 47K
R4503 47K
R4511 47K
R4518 75K
R4519 75K
A_GND
FM_GND
K4504 VWJ0795=5
TUN_R
TUN_L
R4517 6200
R4524 6200
R4553 10K
R4505 6200
R4506 6200
R4557 10K
R4510 6200
R4512 6200
A
B
C
D
E
F
1
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10

V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

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DMR-EH75VP
VHS Audio Section
(Main P.C.B.(2/4))
Schematic Diagram(A)

C

V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

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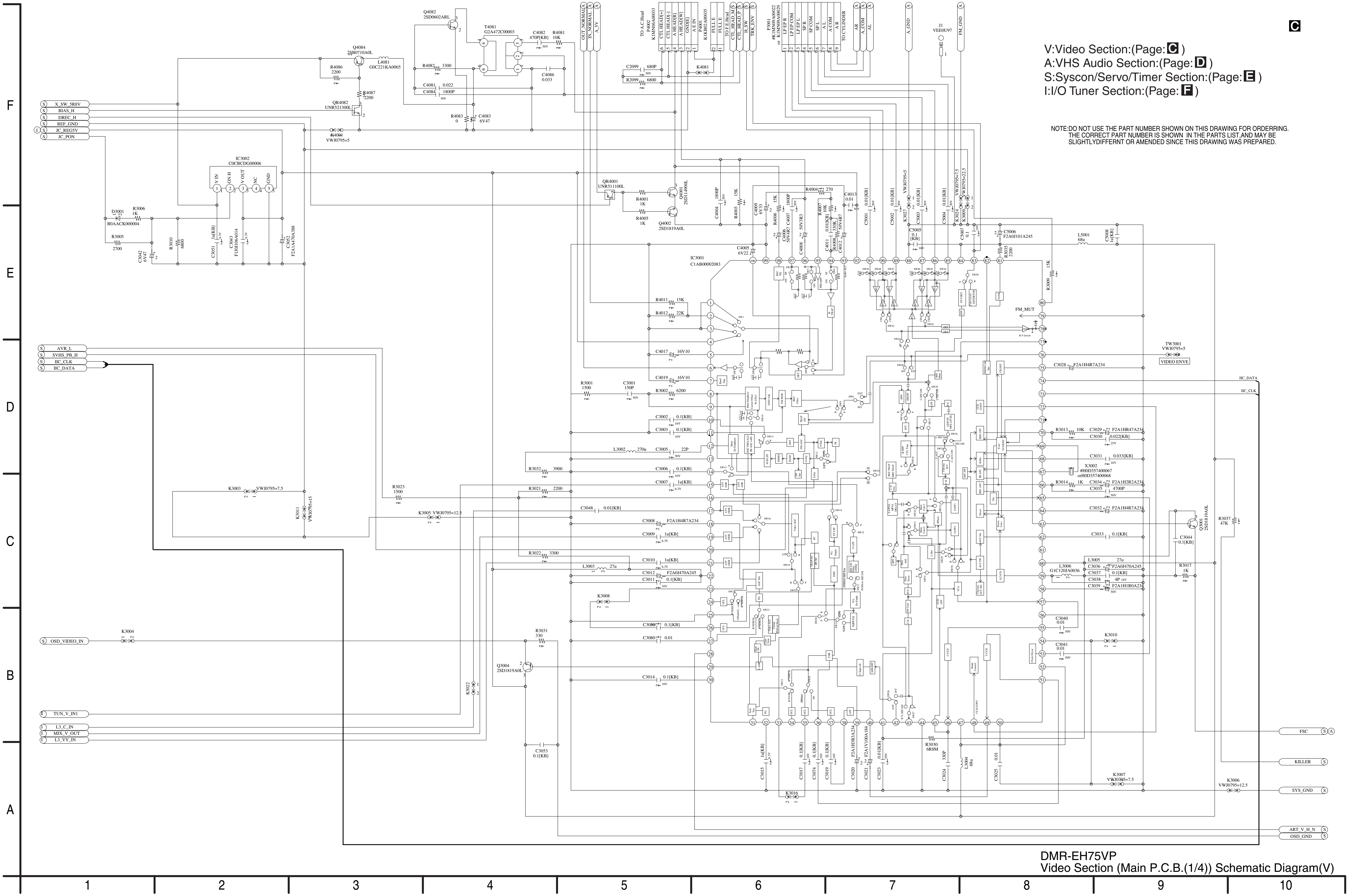
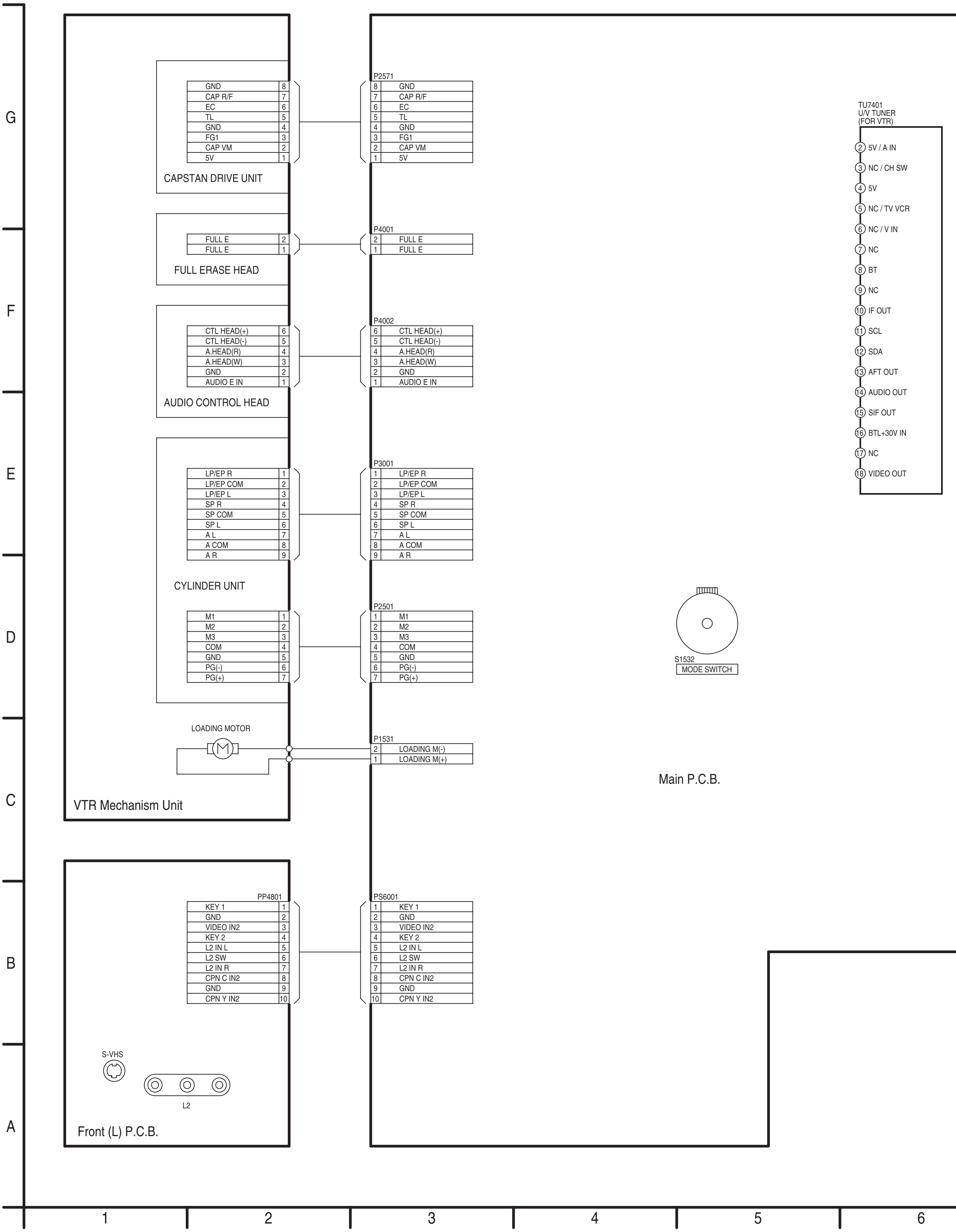
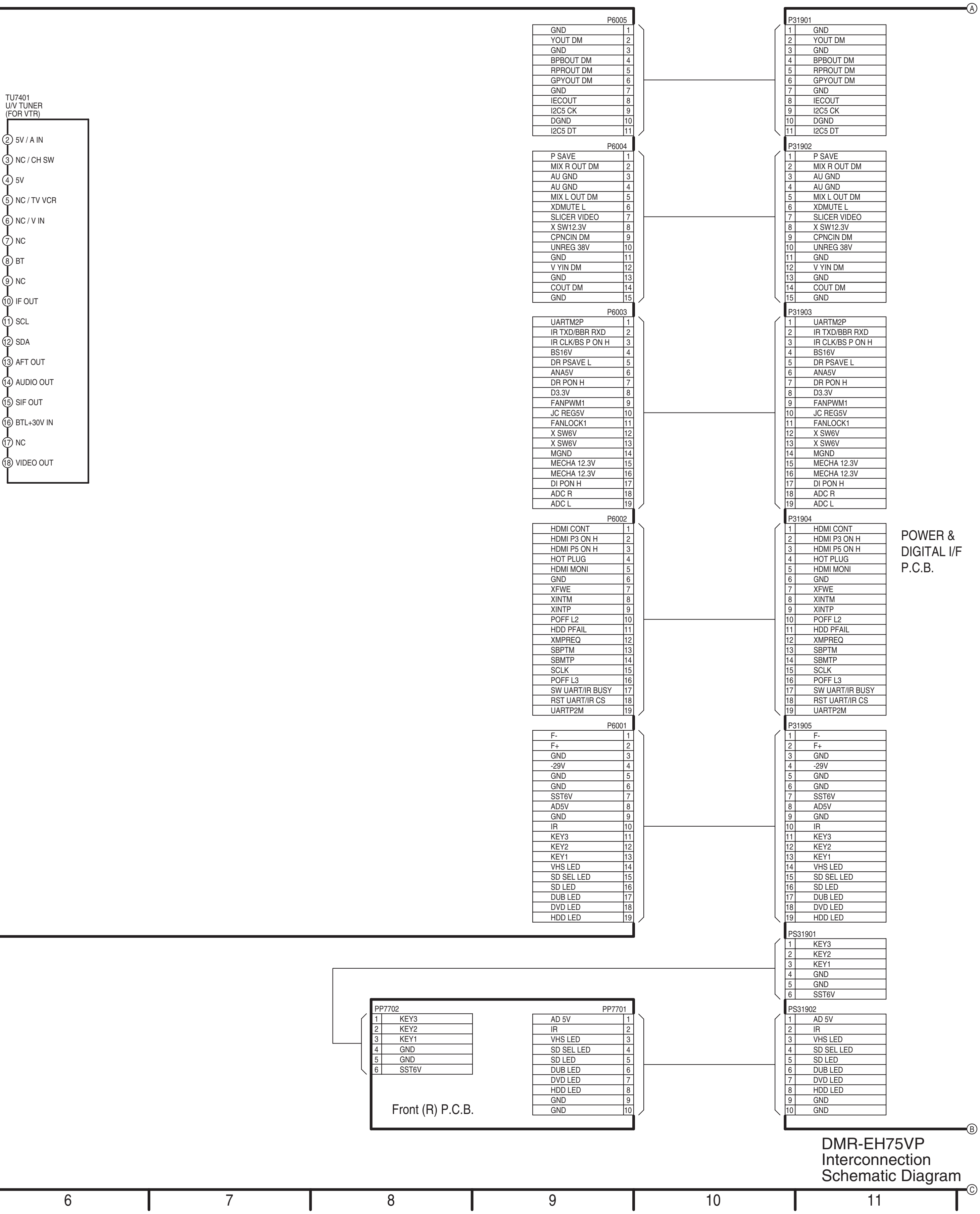

F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
X_SW_5R8V
BIAS_H
DREC_H
REF_GND
JC_REG5V
JC_PON
K4004 VWJ0795=5
Q4082 2SD0602ARL
Q4084 2SB0710A0L
L4081 G0C221KA0065
R4086 2200
QR4082 UNR521300L
R4087 2200
T4081 G2A472C00003
C4082 470P[KB]
R4081 10K
R4082 3300
C4081 0.022
C4084 1800P
C4086 0.033
R4083 0
C4083 6V47
OUT_NORMAL
IN_NORMAL
A_5V
TO A/C Head P4002 K1MN06A00033
CTL HEAD[+]
CTL HEAD[-]
A HEAD[R]
A HEAD[W]
GND[E]
A E IN
P4001 K1KB02A00035
FULL E
TO F.E.Head
CTL_HEAD_M
CTL_HEAD_P
H_SW
TRK_ENV
C2099 680P
R2099 6800
K4081
P3001 #K1MN09A00022 or K1MN09A00029
LP EP R
LP EP COM
LP EP L
SP R
SP COM
SP L
A L
A COM
A R
TO CYLINDER
AR
A_COM
AL
A_GND
J1 VEE0U97
FM_GND
IC3002 C0CBCDG00006
V IN
ON H
V OUT
NC
GND
D3001 B0AACK000004
R3006 1K
R3005 2700
C3042 6V47
R3010 6800
C3051 1u[KB]
C3043 F1J0J106A014
C3052 F2A1A470A388
QR4001 UNR511100L
Q4001 2SD1490OL
R4001 1K
R4005 1K
Q4002 2SD1819A0L
C4004 1800P
R4003 15K
C4009 6V33
R4006 15K
C4007 1800P
R4004 270
C4013 0.01
C4008 50V3R3
R4007 10K
R4011 15K
R4012 22K
IC3001 C1AB00002083
C4005 6V22
C5001 0.01[KB]
C5002 0.01[KB]
C5003 0.01[KB]
C5004 0.01[KB]
K3027 VWJ0795=5
C5005 0.1 [KB]
C5007 0.1
K3024 VWJ0795=7.5
K3029 VWJ0795=22.5
C5006 F2A0J101A245
R3035 2200
L5001 68u
C5008 1u[KB]
R3009 15K
FM_MUT
TW3001 VWJ0795=5
VIDEO ENVE
C3028 F2A1H4R7A234
IIC_DATA
IIC_CLK
R3013 10K
C3029 F2A1HR47A234
C3030 0.022[KB]
C3031 0.033[KB]
X3002 #H0D357400067 orH0D357400068
R3014 1K
C3034 F2A1H2R2A234
C3035 4700P
C3032 F2A1H4R7A234
C3033 0.1[KB]
L3005 27u
L3006 G1C120JA0036
C3036 F2A0J470A245
C3037 0.1[KB]
C3038 4P
C3039 F2A1H1R0A234
C3040 0.01
C3041 0.01
K3010
Q3001 2SD1819A0L
R3037 47K
C3044 0.1[KB]
R3017 1K
AVR_L
SVHS_PB_H
IIC_CLK
IIC_DATA
C4017 16V10
C4019 16V10
R3001 1500
C3001 150P
R3002 6200
C3002 0.1[KB]
C3003 0.1[KB]
L3002 270u
C3005 22P
R3032 3900
C3006 0.1[KB]
K3003 VWJ0795=7.5
R3023 1500
R3021 2200
C3007 1u[KB]
K3011 VWJ0795=15
C3048 0.01[KB]
K3005 VWJ0795=12.5
C3008 F2A1H4R7A234
C3009 1u[KB]
R3022 3300
L3003 27u
C3010 1u[KB]
C3012 F2A0J470A245
C3011 0.1[KB]
K3008
C3050 0.1[KB]
C3080 0.01
OSD_VIDEO_IN
K3004
R3031 330
Q3004 2SD1819A0L
C3014 0.1[KB]
K3002
TUN_V_IN1
L3_C_IN
MIX_V_OUT
L3_VY_IN
C3053 0.1[KB]
C3015 1u[KB]
C3017 0.1[KB]
C3074 0.1[KB]
C3019 0.1[KB]
C3020 F2A1H3R3A234
C3021 F2A1V100A184
C3023 0.01[KB]
C3024 330P
L3004 68u
R3030 6R8M
C3025 0.01
K3016
K3007 VWJ0795=7.5
K3006 VWJ0795=12.5
FSC
KILLER
SYS_GND
ART_V_H_N
OSD_GND

DMR-EH75VP
Video Section (Main P.C.B.(1/4)) Schematic Diagram(V)

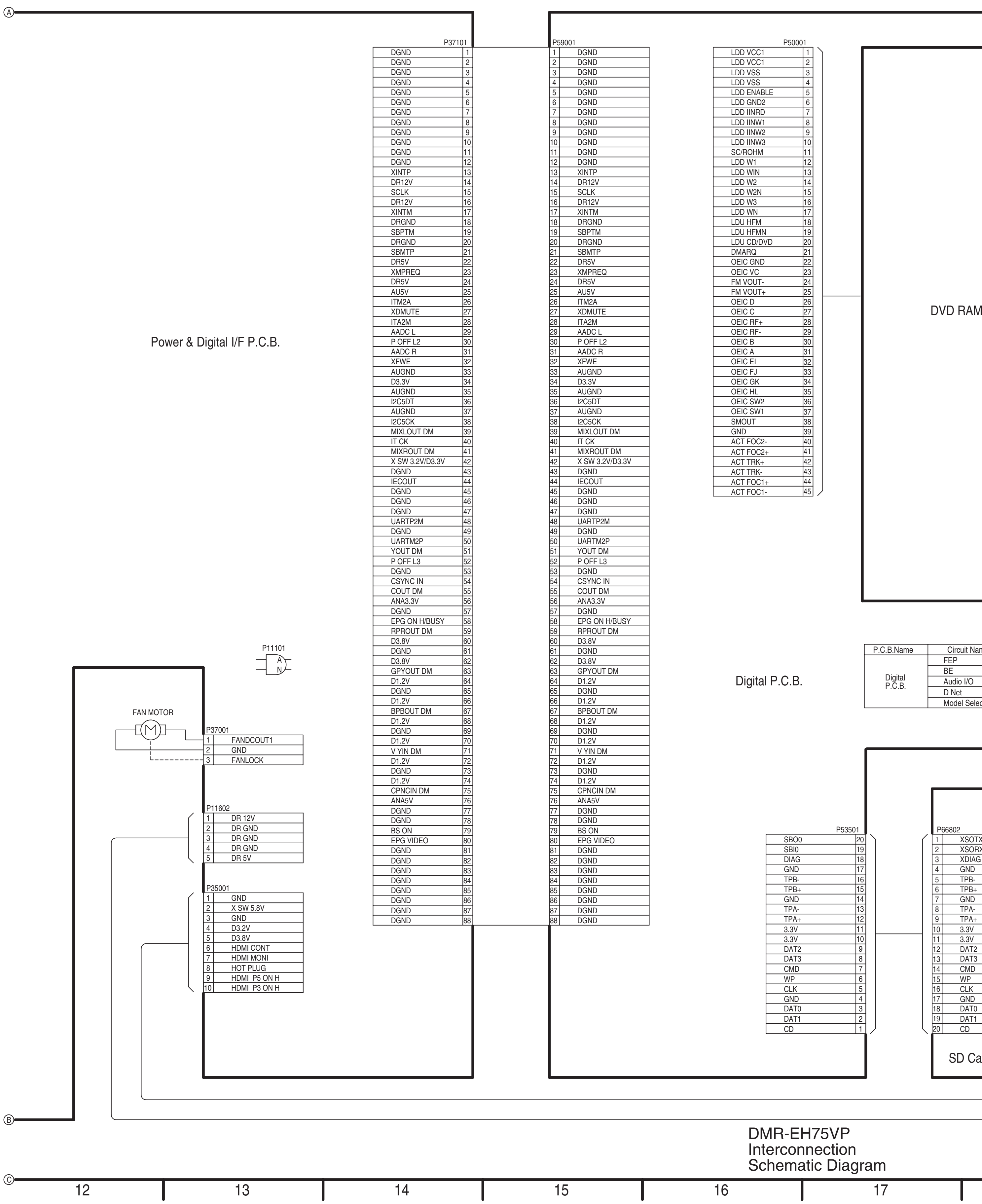
13 Schematic Diagram

13.1. Interconnection Schematic Diagram


G
F
E
D
C
B
A
1
2
3
4
5
6
VTR Mechanism Unit
CAPSTAN DRIVE UNIT
GND 8
CAP R/F 7
EC 6
TL 5
GND 4
FG1 3
CAP VM 2
5V 1
P2571
8 GND
7 CAP R/F
6 EC
5 TL
4 GND
3 FG1
2 CAP VM
1 5V
FULL ERASE HEAD
FULL E 2
FULL E 1
P4001
2 FULL E
1 FULL E
AUDIO CONTROL HEAD
CTL HEAD(+) 6
CTL HEAD(-) 5
A.HEAD(R) 4
A.HEAD(W) 3
GND 2
AUDIO E IN 1
P4002
6 CTL HEAD(+)
5 CTL HEAD(-)
4 A.HEAD(R)
3 A.HEAD(W)
2 GND
1 AUDIO E IN
CYLINDER UNIT
LP/EP R 1
LP/EP COM 2
LP/EP L 3
SP R 4
SP COM 5
SP L 6
A L 7
A COM 8
A R 9
P3001
1 LP/EP R
2 LP/EP COM
3 LP/EP L
4 SP R
5 SP COM
6 SP L
7 A L
8 A COM
9 A R
M1 1
M2 2
M3 3
COM 4
GND 5
PG(-) 6
PG(+) 7
P2501
1 M1
2 M2
3 M3
4 COM
5 GND
6 PG(-)
7 PG(+)
LOADING MOTOR
M
P1531
2 LOADING M(-)
1 LOADING M(+)
TU7401
U/V TUNER
(FOR VTR)
② 5V / A IN
③ NC / CH SW
④ 5V
⑤ NC / TV VCR
⑥ NC / V IN
⑦ NC
⑧ BT
⑨ NC
⑩ IF OUT
⑪ SCL
⑫ SDA
⑬ AFT OUT
⑭ AUDIO OUT
⑮ SIF OUT
⑯ BTL+30V IN
⑰ NC
⑱ VIDEO OUT
S1532
MODE SWITCH
Main P.C.B.
Front (L) P.C.B.
PP4801
KEY 1 1
GND 2
VIDEO IN2 3
KEY 2 4
L2 IN L 5
L2 SW 6
L2 IN R 7
CPN C IN2 8
GND 9
CPN Y IN2 10
PS6001
1 KEY 1
2 GND
3 VIDEO IN2
4 KEY 2
5 L2 IN L
6 L2 SW
7 L2 IN R
8 CPN C IN2
9 GND
10 CPN Y IN2
S-VHS
L2

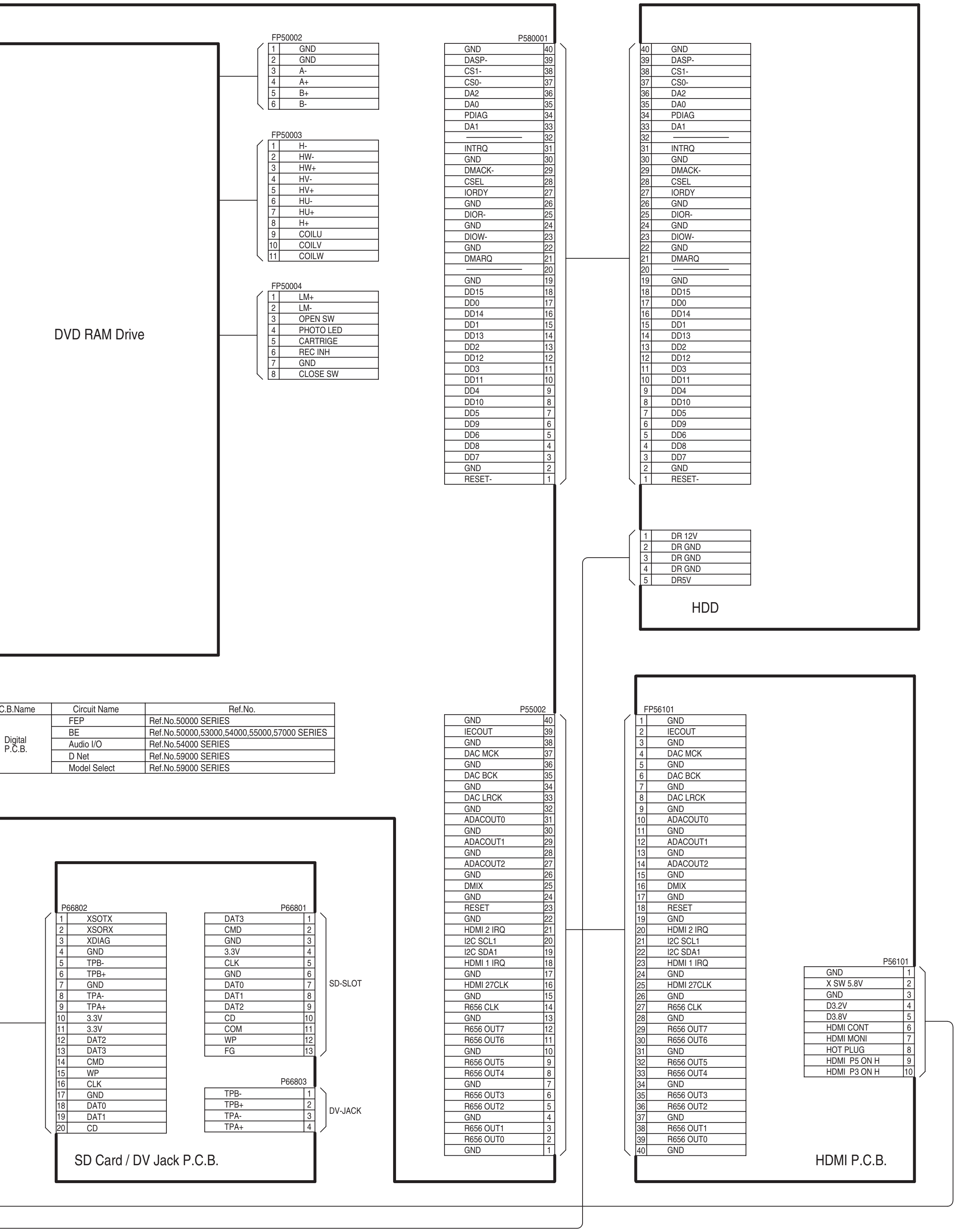

TU7401
U/V TUNER
(FOR VTR)
② 5V / A IN
③ NC / CH SW
④ 5V
⑤ NC / TV VCR
⑥ NC / V IN
⑦ NC
⑧ BT
⑨ NC
⑩ IF OUT
⑪ SCL
⑫ SDA
⑬ AFT OUT
⑭ AUDIO OUT
⑮ SIF OUT
⑯ BTL+30V IN
⑰ NC
⑱ VIDEO OUT
P6005
GND 1
YOUT DM 2
GND 3
BPBOUT DM 4
RPROUT DM 5
GPYOUT DM 6
GND 7
IECOUT 8
I2C5 CK 9
DGND 10
I2C5 DT 11
P6004
P SAVE 1
MIX R OUT DM 2
AU GND 3
AU GND 4
MIX L OUT DM 5
XDMUTE L 6
SLICER VIDEO 7
X SW12.3V 8
CPNCIN DM 9
UNREG 38V 10
GND 11
V YIN DM 12
GND 13
COUT DM 14
GND 15
P6003
UARTM2P 1
IR TXD/BBR RXD 2
IR CLK/BS P ON H 3
BS16V 4
DR PSAVE L 5
ANA5V 6
DR PON H 7
D3.3V 8
FANPWM1 9
JC REG5V 10
FANLOCK1 11
X SW6V 12
X SW6V 13
MGND 14
MECHA 12.3V 15
MECHA 12.3V 16
DI PON H 17
ADC R 18
ADC L 19
P6002
HDMI CONT 1
HDMI P3 ON H 2
HDMI P5 ON H 3
HOT PLUG 4
HDMI MONI 5
GND 6
XFWE 7
XINTM 8
XINTP 9
POFF L2 10
HDD PFAIL 11
XMPREQ 12
SBPTM 13
SBMTP 14
SCLK 15
POFF L3 16
SW UART/IR BUSY 17
RST UART/IR CS 18
UARTP2M 19
P6001
F- 1
F+ 2
GND 3
-29V 4
GND 5
GND 6
SST6V 7
AD5V 8
GND 9
IR 10
KEY3 11
KEY2 12
KEY1 13
VHS LED 14
SD SEL LED 15
SD LED 16
DUB LED 17
DVD LED 18
HDD LED 19
P31901
1 GND
2 YOUT DM
3 GND
4 BPBOUT DM
5 RPROUT DM
6 GPYOUT DM
7 GND
8 IECOUT
9 I2C5 CK
10 DGND
11 I2C5 DT
P31902
1 P SAVE
2 MIX R OUT DM
3 AU GND
4 AU GND
5 MIX L OUT DM
6 XDMUTE L
7 SLICER VIDEO
8 X SW12.3V
9 CPNCIN DM
10 UNREG 38V
11 GND
12 V YIN DM
13 GND
14 COUT DM
15 GND
P31903
1 UARTM2P
2 IR TXD/BBR RXD
3 IR CLK/BS P ON H
4 BS16V
5 DR PSAVE L
6 ANA5V
7 DR PON H
8 D3.3V
9 FANPWM1
10 JC REG5V
11 FANLOCK1
12 X SW6V
13 X SW6V
14 MGND
15 MECHA 12.3V
16 MECHA 12.3V
17 DI PON H
18 ADC R
19 ADC L
P31904
1 HDMI CONT
2 HDMI P3 ON H
3 HDMI P5 ON H
4 HOT PLUG
5 HDMI MONI
6 GND
7 XFWE
8 XINTM
9 XINTP
10 POFF L2
11 HDD PFAIL
12 XMPREQ
13 SBPTM
14 SBMTP
15 SCLK
16 POFF L3
17 SW UART/IR BUSY
18 RST UART/IR CS
19 UARTP2M
P31905
1 F-
2 F+
3 GND
4 -29V
5 GND
6 GND
7 SST6V
8 AD5V
9 GND
10 IR
11 KEY3
12 KEY2
13 KEY1
14 VHS LED
15 SD SEL LED
16 SD LED
17 DUB LED
18 DVD LED
19 HDD LED
PS31901
1 KEY3
2 KEY2
3 KEY1
4 GND
5 GND
6 SST6V
PS31902
1 AD 5V
2 IR
3 VHS LED
4 SD SEL LED
5 SD LED
6 DUB LED
7 DVD LED
8 HDD LED
9 GND
10 GND
POWER &
DIGITAL I/F
P.C.B.
PP7702
1 KEY3
2 KEY2
3 KEY1
4 GND
5 GND
6 SST6V
PP7701
AD 5V 1
IR 2
VHS LED 3
SD SEL LED 4
SD LED 5
DUB LED 6
DVD LED 7
HDD LED 8
GND 9
GND 10
Front (R) P.C.B.
Ⓐ
Ⓑ
Ⓒ
6
7
8
9
10
11

DMR-EH75VP
Interconnection
Schematic Diagram


A
P37101
DGND 1
DGND 2
DGND 3
DGND 4
DGND 5
DGND 6
DGND 7
DGND 8
DGND 9
DGND 10
DGND 11
DGND 12
XINTP 13
DR12V 14
SCLK 15
DR12V 16
XINTM 17
DRGND 18
SBPTM 19
DRGND 20
SBMTP 21
DR5V 22
XMPREQ 23
DR5V 24
AU5V 25
ITM2A 26
XDMUTE 27
ITA2M 28
AADC L 29
P OFF L2 30
AADC R 31
XFWE 32
AUGND 33
D3.3V 34
AUGND 35
I2C5DT 36
AUGND 37
I2C5CK 38
MIXLOUT DM 39
IT CK 40
MIXROUT DM 41
X SW 3.2V/D3.3V 42
DGND 43
IECOUT 44
DGND 45
DGND 46
DGND 47
UARTP2M 48
DGND 49
UARTM2P 50
YOUT DM 51
P OFF L3 52
DGND 53
CSYNC IN 54
COUT DM 55
ANA3.3V 56
DGND 57
EPG ON H/BUSY 58
RPROUT DM 59
D3.8V 60
DGND 61
D3.8V 62
GPYOUT DM 63
D1.2V 64
DGND 65
D1.2V 66
BPBOUT DM 67
D1.2V 68
DGND 69
D1.2V 70
V YIN DM 71
D1.2V 72
DGND 73
D1.2V 74
CPNCIN DM 75
ANA5V 76
DGND 77
DGND 78
BS ON 79
EPG VIDEO 80
DGND 81
DGND 82
DGND 83
DGND 84
DGND 85
DGND 86
DGND 87
DGND 88
P59001
1 DGND
2 DGND
3 DGND
4 DGND
5 DGND
6 DGND
7 DGND
8 DGND
9 DGND
10 DGND
11 DGND
12 DGND
13 XINTP
14 DR12V
15 SCLK
16 DR12V
17 XINTM
18 DRGND
19 SBPTM
20 DRGND
21 SBMTP
22 DR5V
23 XMPREQ
24 DR5V
25 AU5V
26 ITM2A
27 XDMUTE
28 ITA2M
29 AADC L
30 P OFF L2
31 AADC R
32 XFWE
33 AUGND
34 D3.3V
35 AUGND
36 I2C5DT
37 AUGND
38 I2C5CK
39 MIXLOUT DM
40 IT CK
41 MIXROUT DM
42 X SW 3.2V/D3.3V
43 DGND
44 IECOUT
45 DGND
46 DGND
47 DGND
48 UARTP2M
49 DGND
50 UARTM2P
51 YOUT DM
52 P OFF L3
53 DGND
54 CSYNC IN
55 COUT DM
56 ANA3.3V
57 DGND
58 EPG ON H/BUSY
59 RPROUT DM
60 D3.8V
61 DGND
62 D3.8V
63 GPYOUT DM
64 D1.2V
65 DGND
66 D1.2V
67 BPBOUT DM
68 D1.2V
69 DGND
70 D1.2V
71 V YIN DM
72 D1.2V
73 DGND
74 D1.2V
75 CPNCIN DM
76 ANA5V
77 DGND
78 DGND
79 BS ON
80 EPG VIDEO
81 DGND
82 DGND
83 DGND
84 DGND
85 DGND
86 DGND
87 DGND
88 DGND
P50001
LDD VCC1 1
LDD VCC1 2
LDD VSS 3
LDD VSS 4
LDD ENABLE 5
LDD GND2 6
LDD IINRD 7
LDD IINW1 8
LDD IINW2 9
LDD IINW3 10
SC/ROHM 11
LDD W1 12
LDD WIN 13
LDD W2 14
LDD W2N 15
LDD W3 16
LDD WN 17
LDU HFM 18
LDU HFMN 19
LDU CD/DVD 20
DMARQ 21
OEIC GND 22
OEIC VC 23
FM VOUT- 24
FM VOUT+ 25
OEIC D 26
OEIC C 27
OEIC RF+ 28
OEIC RF- 29
OEIC B 30
OEIC A 31
OEIC EI 32
OEIC FJ 33
OEIC GK 34
OEIC HL 35
OEIC SW2 36
OEIC SW1 37
SMOUT 38
GND 39
ACT FOC2- 40
ACT FOC2+ 41
ACT TRK+ 42
ACT TRK- 43
ACT FOC1+ 44
ACT FOC1- 45
DVD RAM
Power & Digital I/F P.C.B.
P11101
A
N
FAN MOTOR
M
P37001
1 FANDCOUT1
2 GND
3 FANLOCK
P11602
1 DR 12V
2 DR GND
3 DR GND
4 DR GND
5 DR 5V
P35001
1 GND
2 X SW 5.8V
3 GND
4 D3.2V
5 D3.8V
6 HDMI CONT
7 HDMI MONI
8 HOT PLUG
9 HDMI P5 ON H
10 HDMI P3 ON H
Digital P.C.B.
P53501
SBO0 20
SBI0 19
DIAG 18
GND 17
TPB- 16
TPB+ 15
GND 14
TPA- 13
TPA+ 12
3.3V 11
3.3V 10
DAT2 9
DAT3 8
CMD 7
WP 6
CLK 5
GND 4
DAT0 3
DAT1 2
CD 1
P66802
1 XSOTX
2 XSORX
3 XDIAG
4 GND
5 TPB-
6 TPB+
7 GND
8 TPA-
9 TPA+
10 3.3V
11 3.3V
12 DAT2
13 DAT3
14 CMD
15 WP
16 CLK
17 GND
18 DAT0
19 DAT1
20 CD
SD Ca
B
C
12
13
14
15
16
17

P.C.B.Name	Circuit Nam
Digital P.C.B.	FEP
	BE
	Audio I/O
	D Net
	Model Selec

DMR-EH75VP
Interconnection
Schematic Diagram


DVD RAM Drive
FP50002
1 GND
2 GND
3 A-
4 A+
5 B+
6 B-
FP50003
1 H-
2 HW-
3 HW+
4 HV-
5 HV+
6 HU-
7 HU+
8 H+
9 COILU
10 COILV
11 COILW
FP50004
1 LM+
2 LM-
3 OPEN SW
4 PHOTO LED
5 CARTRIGE
6 REC INH
7 GND
8 CLOSE SW
P580001
GND 40
DASP- 39
CS1- 38
CS0- 37
DA2 36
DA0 35
PDIAG 34
DA1 33
32
INTRQ 31
GND 30
DMACK- 29
CSEL 28
IORDY 27
GND 26
DIOR- 25
GND 24
DIOW- 23
GND 22
DMARQ 21
20
GND 19
DD15 18
DD0 17
DD14 16
DD1 15
DD13 14
DD2 13
DD12 12
DD3 11
DD11 10
DD4 9
DD10 8
DD5 7
DD9 6
DD6 5
DD8 4
DD7 3
GND 2
RESET- 1
40 GND
39 DASP-
38 CS1-
37 CS0-
36 DA2
35 DA0
34 PDIAG
33 DA1
32
31 INTRQ
30 GND
29 DMACK-
28 CSEL
27 IORDY
26 GND
25 DIOR-
24 GND
23 DIOW-
22 GND
21 DMARQ
20
19 GND
18 DD15
17 DD0
16 DD14
15 DD1
14 DD13
13 DD2
12 DD12
11 DD3
10 DD11
9 DD4
8 DD10
7 DD5
6 DD9
5 DD6
4 DD8
3 DD7
2 GND
1 RESET-
1 DR 12V
2 DR GND
3 DR GND
4 DR GND
5 DR5V
HDD
P55002
GND 40
IECOUT 39
GND 38
DAC MCK 37
GND 36
DAC BCK 35
GND 34
DAC LRCK 33
GND 32
ADACOUT0 31
GND 30
ADACOUT1 29
GND 28
ADACOUT2 27
GND 26
DMIX 25
GND 24
RESET 23
GND 22
HDMI 2 IRQ 21
I2C SCL1 20
I2C SDA1 19
HDMI 1 IRQ 18
GND 17
HDMI 27CLK 16
GND 15
R656 CLK 14
GND 13
R656 OUT7 12
R656 OUT6 11
GND 10
R656 OUT5 9
R656 OUT4 8
GND 7
R656 OUT3 6
R656 OUT2 5
GND 4
R656 OUT1 3
R656 OUT0 2
GND 1
FP56101
1 GND
2 IECOUT
3 GND
4 DAC MCK
5 GND
6 DAC BCK
7 GND
8 DAC LRCK
9 GND
10 ADACOUT0
11 GND
12 ADACOUT1
13 GND
14 ADACOUT2
15 GND
16 DMIX
17 GND
18 RESET
19 GND
20 HDMI 2 IRQ
21 I2C SCL1
22 I2C SDA1
23 HDMI 1 IRQ
24 GND
25 HDMI 27CLK
26 GND
27 R656 CLK
28 GND
29 R656 OUT7
30 R656 OUT6
31 GND
32 R656 OUT5
33 R656 OUT4
34 GND
35 R656 OUT3
36 R656 OUT2
37 GND
38 R656 OUT1
39 R656 OUT0
40 GND
P56101
GND 1
X SW 5.8V 2
GND 3
D3.2V 4
D3.8V 5
HDMI CONT 6
HDMI MONI 7
HOT PLUG 8
HDMI P5 ON H 9
HDMI P3 ON H 10
HDMI P.C.B.
P66802
1 XSOTX
2 XSORX
3 XDIAG
4 GND
5 TPB-
6 TPB+
7 GND
8 TPA-
9 TPA+
10 3.3V
11 3.3V
12 DAT2
13 DAT3
14 CMD
15 WP
16 CLK
17 GND
18 DAT0
19 DAT1
20 CD
P66801
DAT3 1
CMD 2
GND 3
3.3V 4
CLK 5
GND 6
DAT0 7
DAT1 8
DAT2 9
CD 10
COM 11
WP 12
FG 13
SD-SLOT
P66803
TPB- 1
TPB+ 2
TPA- 3
TPA+ 4
DV-JACK
SD Card / DV Jack P.C.B.

.C.B.Name	Circuit Name	Ref.No.
Digital P.C.B.	FEP	Ref.No.50000 SERIES
	BE	Ref.No.50000,53000,54000,55000,57000 SERIES
	Audio I/O	Ref.No.54000 SERIES
	D Net	Ref.No.59000 SERIES
	Model Select	Ref.No.59000 SERIES

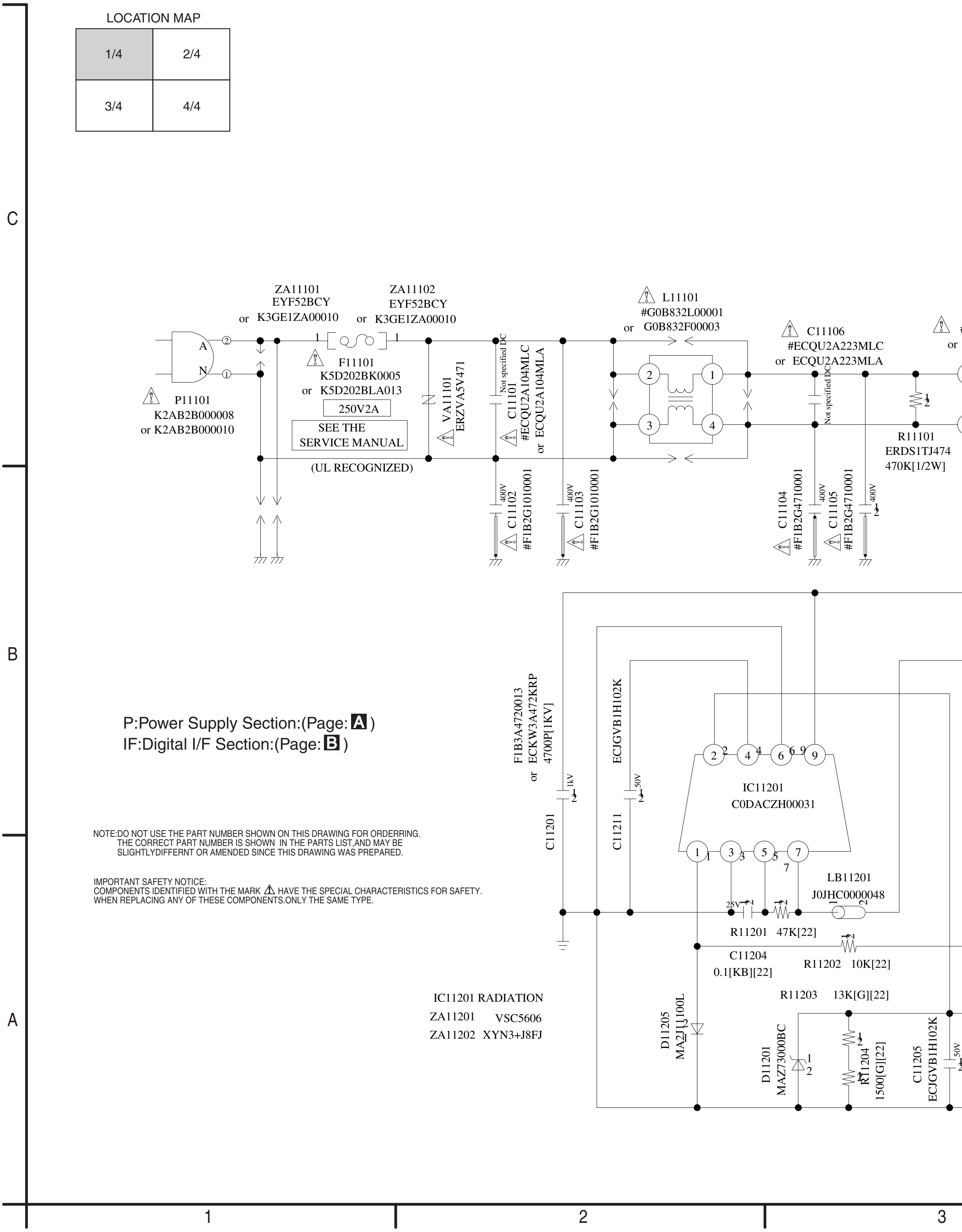
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH75VP
Interconnection
Schematic Diagram

n

7 18 19 20 21 22

13.2. Power Supply (1/4) Section (Power & Digital I/F P.C.B.(1/2)) Schematic Diag


C
B
A
1
2
3
ZA11101
EYF52BCY
or K3GE1ZA00010
ZA11102
EYF52BCY
or K3GE1ZA00010
P11101
K2AB2B000008
or K2AB2B000010
A
N
F11101
K5D202BK0005
or K5D202BLA013
250V2A
SEE THE
SERVICE MANUAL
(UL RECOGNIZED)
VA11101
ERZVA5V471
Not specified DC
C11101
#ECQU2A104MLC
or ECQU2A104MLA
400V
C11102
#F1B2G1010001
400V
C11103
#F1B2G1010001
L11101
#G0B832L00001
or G0B832F00003
C11106
#ECQU2A223MLC
or ECQU2A223MLA
Not specified DC
C11104
#F1B2G4710001
400V
C11105
#F1B2G4710001
400V
R11101
ERDS1TJ474
470K[1/2W]
or
F1B3A4720013
or ECKW3A472KRP
4700P[1KV]
1kV
C11201
ECJGVB1H102K
50V
C11211
IC11201
C0DACZH00031
LB11201
J0JHC0000048
25V
R11201 47K[22]
C11204
0.1[KB][22]
R11202 10K[22]
R11203 13K[G][22]
D11205
MA2J1100L
D11201
MAZ73000BC
R11204
1500[G][22]
C11205
ECJGVB1H102K
50V
IC11201 RADIATION
ZA11201 VSC5606
ZA11202 XYN3+J8FJ

LOCATION MAP

1/4	2/4
3/4	4/4

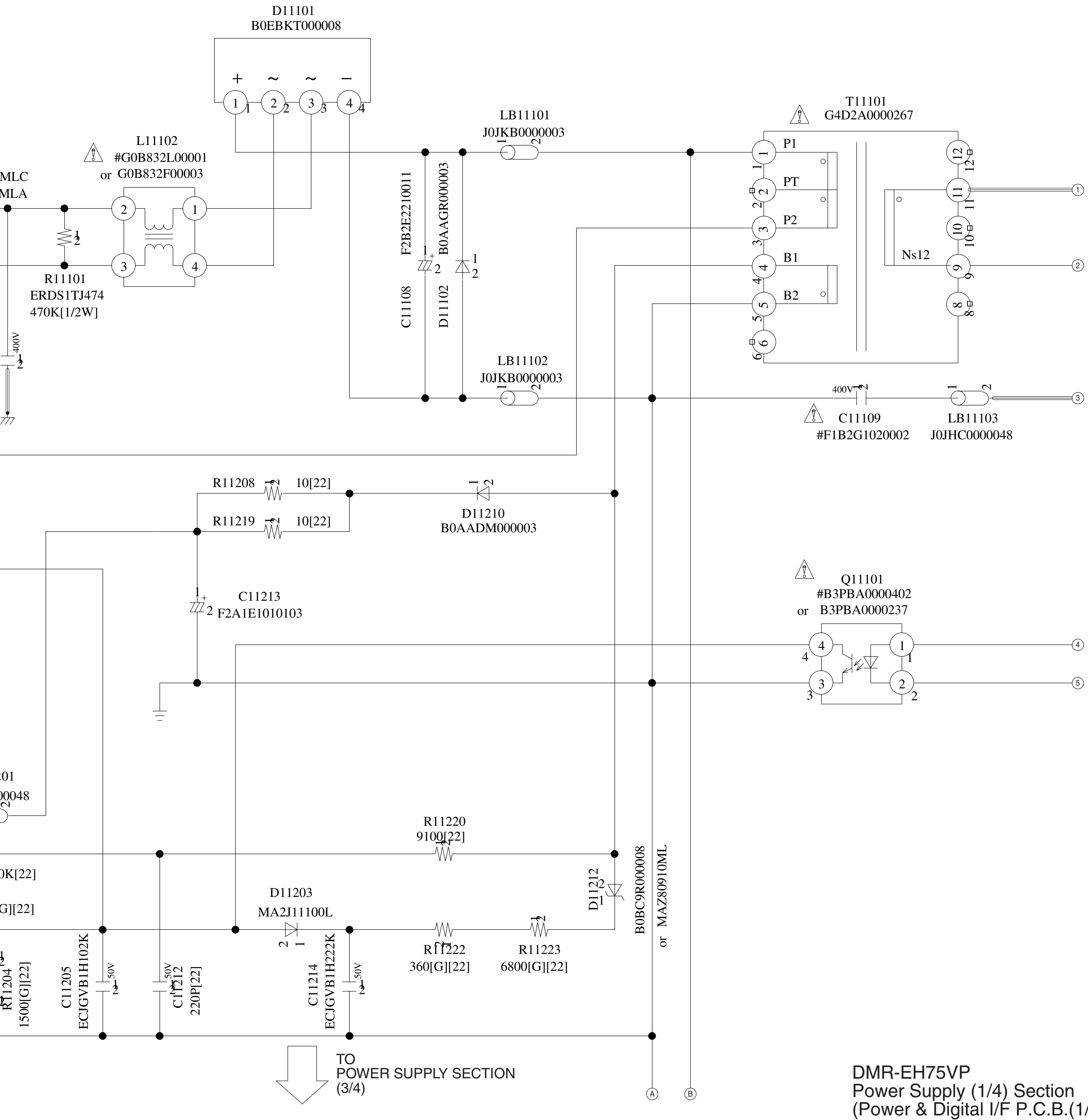
P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

atic Diagram (P)

A


D11101
B0EBKT000008
+
~
~
−
L11102
#G0B832L00001
or G0B832F00003
MLC
MLA
R11101
ERDS1TJ474
470K[1/2W]
400V
LB11101
J0JKB0000003
F2B2E2210011
B0AAGR000003
C11108
D11102
LB11102
J0JKB0000003
T11101
G4D2A0000267
P1
PT
P2
B1
B2
Ns12
400V
C11109
#F1B2G1020002
LB11103
J0JHC0000048
R11208
10[22]
R11219
10[22]
D11210
B0AADM000003
C11213
F2A1E1010103
Q11101
#B3PBA0000402
or B3PBA0000237
101
00048
R11220
9100[22]
0K[22]
G][22]
D11212
B0BC9R000008
or MAZ80910ML
D11203
MA2J11100L
R11222
360[G][22]
R11223
6800[G][22]
R11204
1500[G][22]
C11205
ECJGVB1H102K
50V
C11212
220P[22]
C11214
ECJGVB1H222K
TO
POWER SUPPLY SECTION
(3/4)
A
B
①
②
③
④
⑤

DMR-EH75VP
Power Supply (1/4) Section
(Power & Digital I/F P.C.B.(1/2))
Schematic Diagram(P)

3 4 5

13.3. Power Supply (2/4) Section (Power & Digital I/F P.C.B.(1/2)) Schematic Diagram

P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

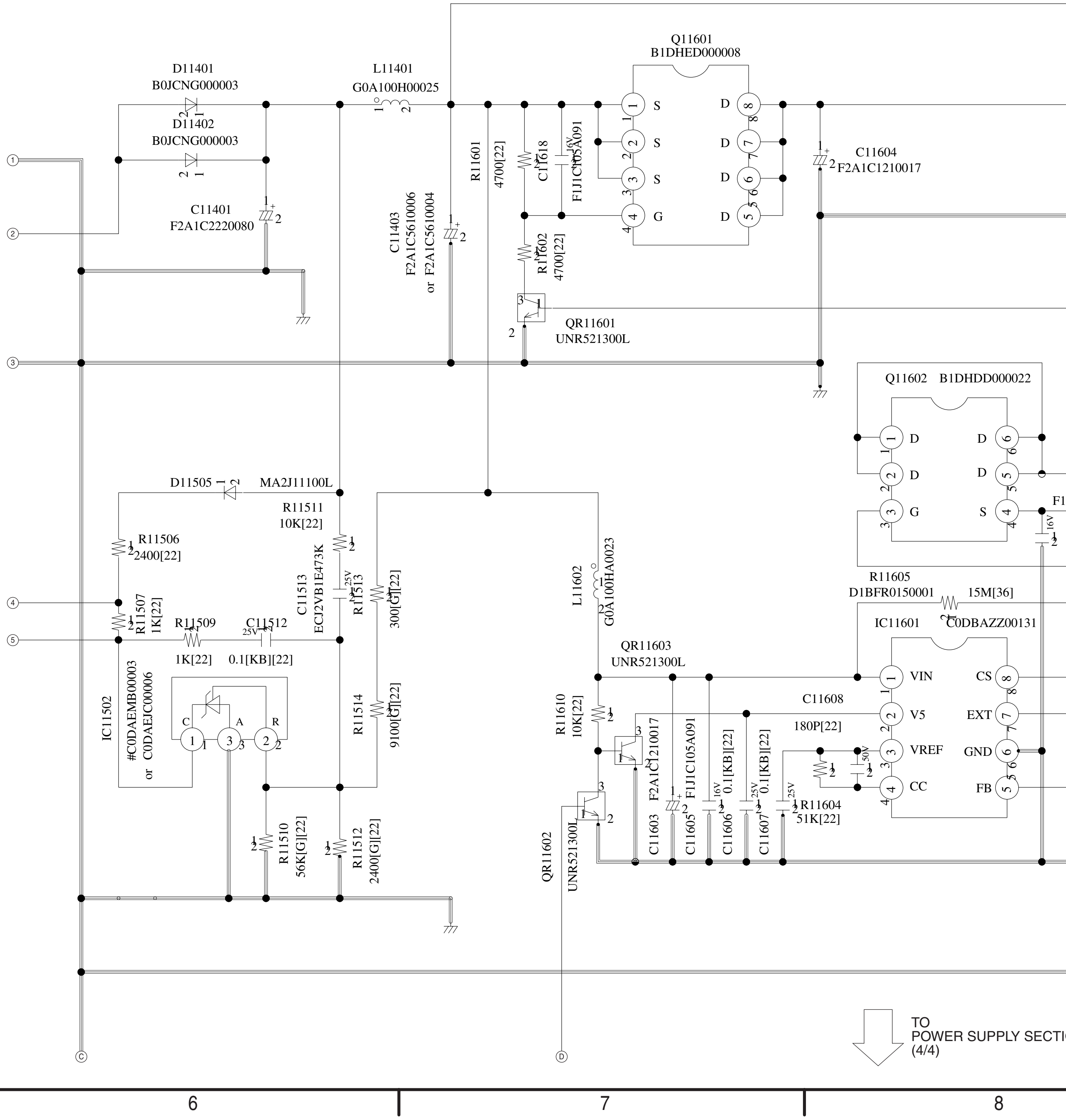
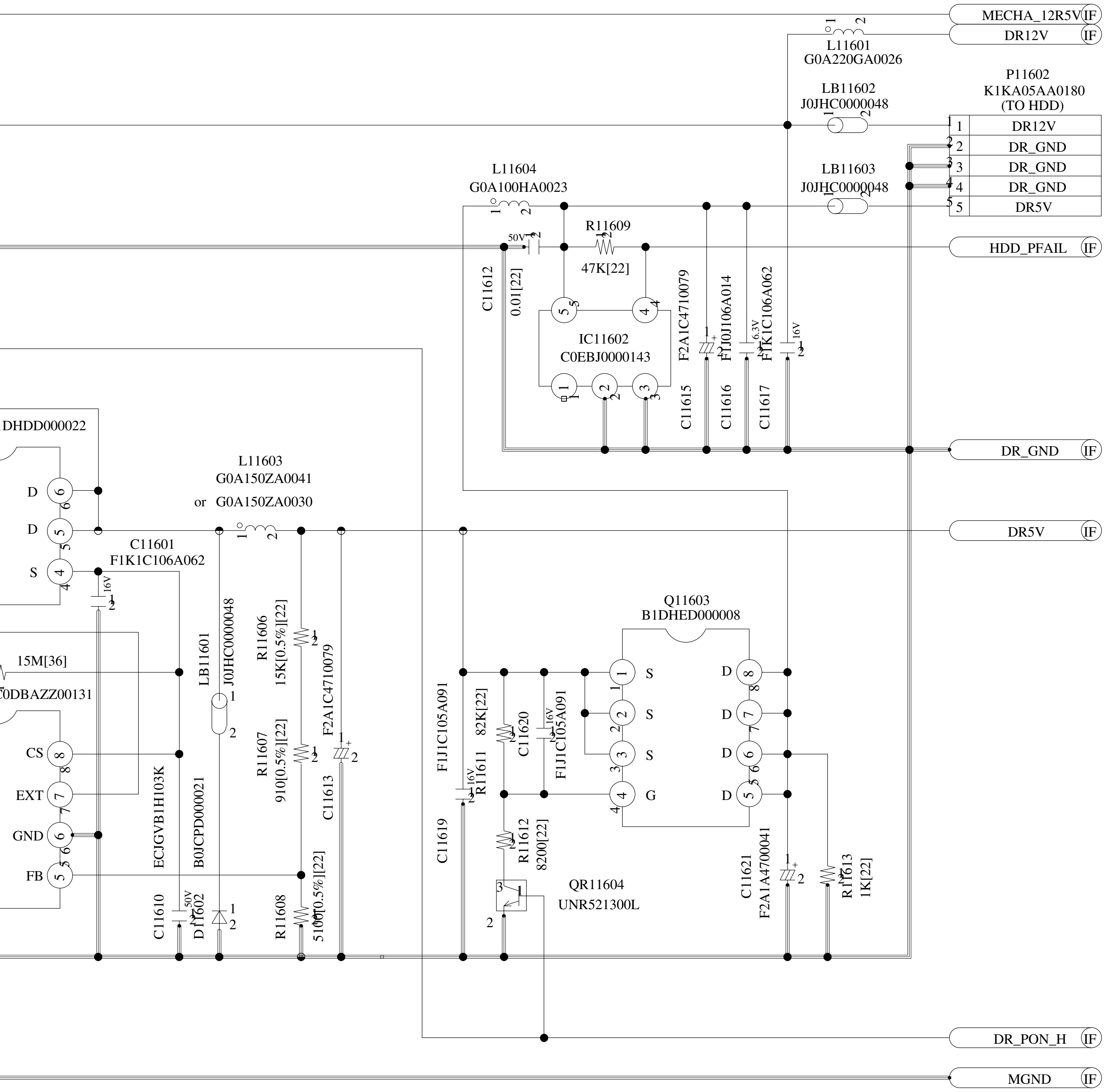

D11401
B0JCNG000003
D11402
B0JCNG000003
C11401
F2A1C2220080
L11401
G0A100H00025
C11403
F2A1C5610006
or F2A1C5610004
R11601
4700[22]
C11618
16V
F1J1C105A091
R11602
4700[22]
QR11601
UNR521300L
Q11601
B1DHED000008
S
S
S
G
D
D
D
D
C11604
F2A1C1210017
Q11602 B1DHDD000022
D
D
G
D
D
S
F1
16V
D11505
MA2J11100L
R11511
10K[22]
R11506
2400[22]
R11507
1K[22]
R11509
1K[22]
C11512
25V
0.1[KB][22]
C11513
25V
ECJ2VB1E473K
R11513
300[G][22]
IC11502
#C0DAEMB00003
or C0DAEJC00006
C
A
R
R11514
9100[G][22]
R11510
56K[G][22]
R11512
2400[G][22]
L11602
G0A100HA0023
QR11603
UNR521300L
R11610
10K[22]
QR11602
UNR521300L
C11603
F2A1C1210017
C11605
16V
F1J1C105A091
C11606
25V
0.1[KB][22]
C11607
25V
0.1[KB][22]
C11608
180P[22]
50V
R11604
51K[22]
R11605
D1BFR0150001
15M[36]
IC11601
C0DBAZZ00131
VIN
V5
VREF
CC
CS
EXT
GND
FB
①
②
③
④
⑤
Ⓒ
Ⓓ
TO
POWER SUPPLY SECTI
(4/4)
6
7
8

Diagram (P)

A

LOCATION MAP

1/4	2/4
3/4	4/4


MECHA_12R5V
IF
DR12V
IF
L11601
G0A220GA0026
P11602
K1KA05AA0180
(TO HDD)
LB11602
J0JHC0000048
DR12V
DR_GND
DR_GND
DR_GND
DR5V
L11604
G0A100HA0023
LB11603
J0JHC0000048
R11609
50V
HDD_PFAIL
IF
47K[22]
C11612
0.01[22]
F2A1C4710079
F1J0J106A014
6.3V
F1K1C106A062
16V
IC11602
C0EBJ0000143
C11615
C11616
C11617
DHDD000022
DR_GND
IF
L11603
G0A150ZA0041
or G0A150ZA0030
D
D
S
DR5V
IF
C11601
F1K1C106A062
16V
Q11603
B1DHED000008
LB11601
J0JHC0000048
R11606
15K[0.5%][22]
F2A1C4710079
15M[36]
0DBAZZ00131
F1J1C105A091
82K[22]
C11620
16V
F1J1C105A091
S
S
S
G
D
D
D
D
CS
EXT
GND
FB
R11607
910[0.5%][22]
C11613
R11611
16V
C11619
R11612
8200[22]
ECJGVB1H103K
B0JCPD000021
QR11604
UNR521300L
C11621
F2A1A4700041
R11613
1K[22]
C11610
50V
D11602
R11608
510[0.5%][22]
DR_PON_H
IF
MGND
IF

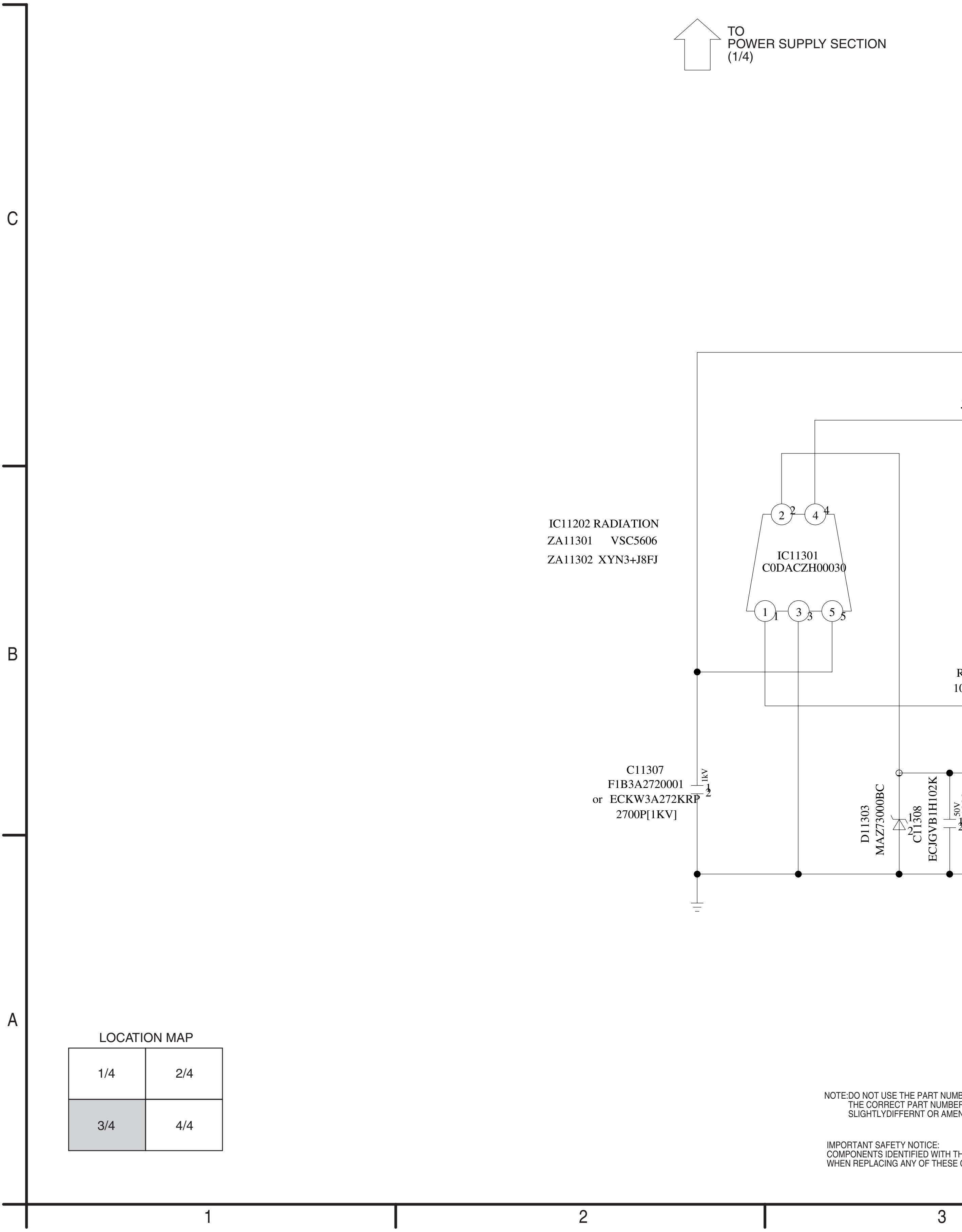
R SUPPLY SECTION

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH75VP
Power Supply (2/4) Section
(Power & Digital I/F P.C.B.(1/2))
Schematic Diagram(P)

8 9 10

13.4. Power Supply (3/4) Section (Power & Digital I/F P.C.B.(1/2)) Schematic Diag


TO
POWER SUPPLY SECTION
(1/4)
IC11202 RADIATION
ZA11301 VSC5606
ZA11302 XYN3+J8FJ
IC11301
C0DACZH00030
2
4
1
3
5
C11307
F1B3A2720001
or ECKW3A272KRP
2700P[1KV]
1kV
1
2
D11303
MAZ73000BC
C11308
ECJGVB1H102K
50V
R
1(
C
B
A
1
2
3

LOCATION MAP

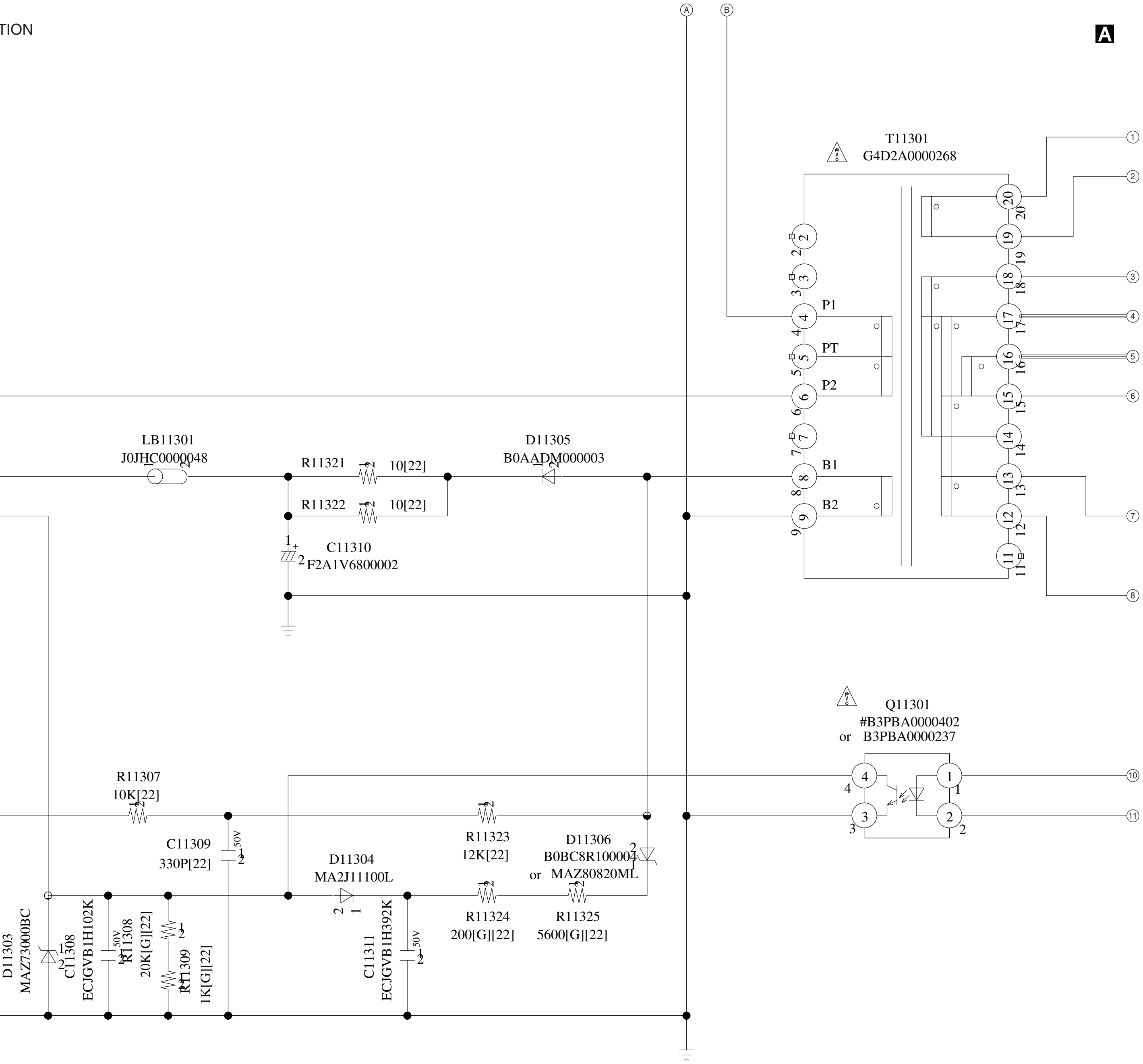
1/4	2/4
3/4	4/4

NOTE:DO NOT USE THE PART NUMB
THE CORRECT PART NUMBEF
SLIGHTLYDIFFERNT OR AMEN

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH TH
WHEN REPLACING ANY OF THESE C

atic Diagram (P)

TION


A
B
A
T11301
G4D2A0000268
P1
PT
P2
B1
B2
LB11301
J0JHC0000048
R11321
10[22]
R11322
10[22]
D11305
B0AADM000003
C11310
F2A1V6800002
Q11301
#B3PBA0000402
or B3PBA0000237
R11307
10K[22]
C11309
330P[22]
50V
D11304
MA2J11100L
R11323
12K[22]
D11306
B0BC8R100004
or MAZ80820ML
R11324
200[G][22]
R11325
5600[G][22]
D11303
MAZ73000BC
C11308
ECJGVB1H102K
R11308
20K[G][22]
R11309
1K[G][22]
C11311
ECJGVB1H392K
①
②
③
④
⑤
⑥
⑦
⑧
⑩
⑪

D NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
E CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
IGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

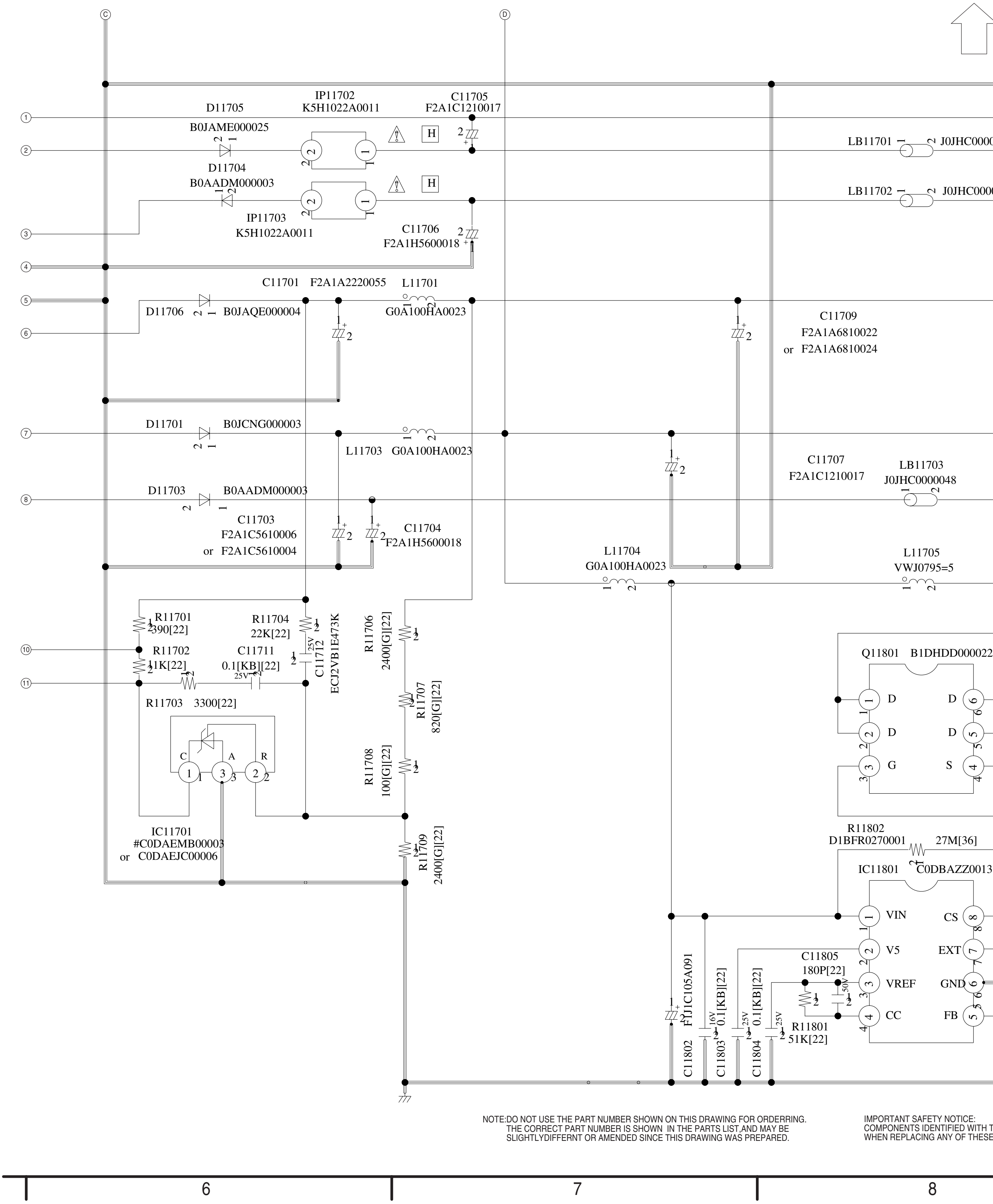
ANT SAFETY NOTICE:
NENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
EPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

DMR-EH75VP
Power Supply (3/4) Section
(Power & Digital I/F P.C.B.(1/2))
Schematic Diagram(P)

3 4 5

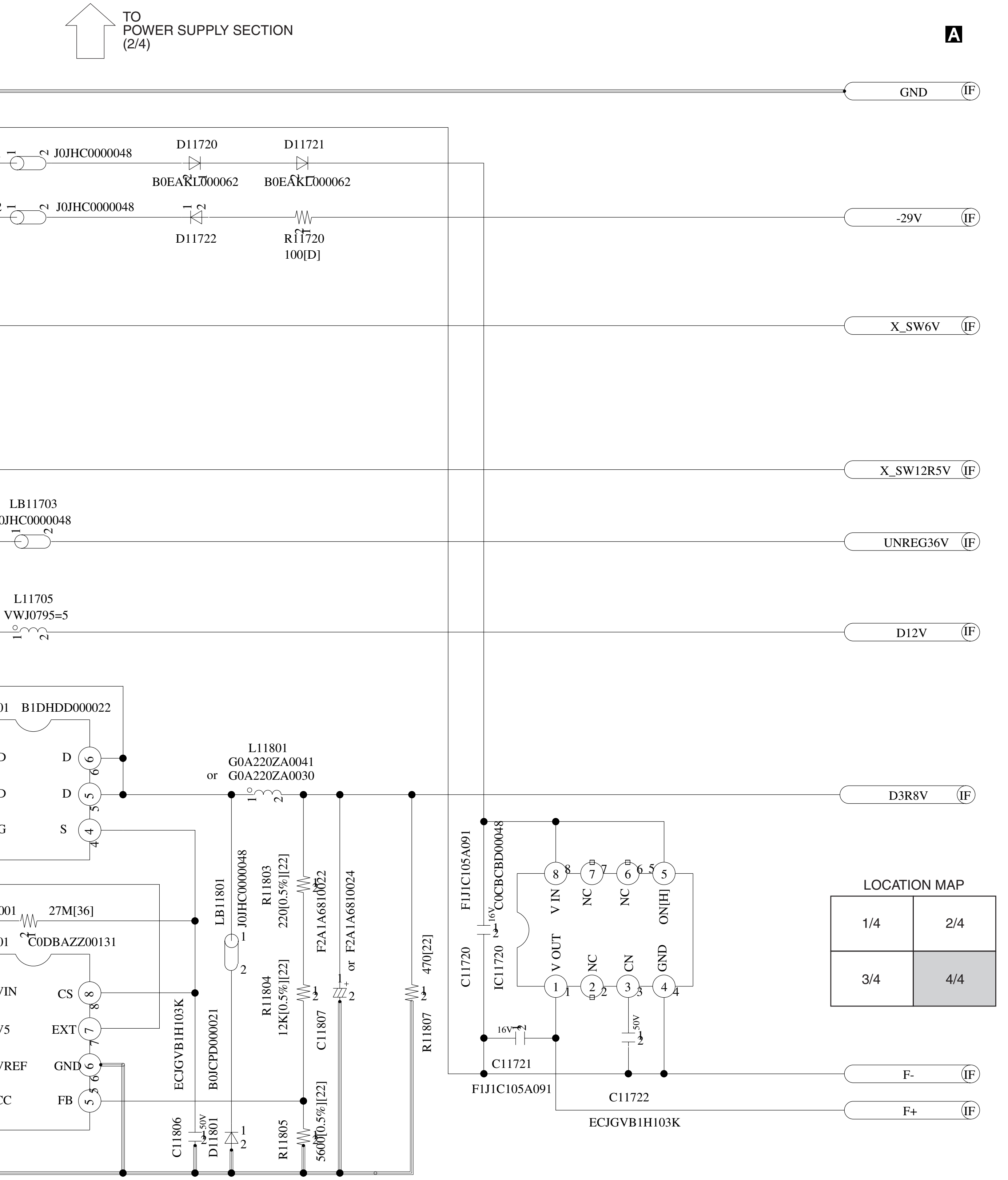
13.5. Power Supply (4/4) Section (Power & Digital I/F P.C.B.(1/2)) Schematic Diagran


C
D
①
②
③
④
⑤
⑥
⑦
⑧
⑩
⑪
D11705
B0JAME000025
IP11702
K5H1022A0011
C11705
F2A1C1210017
H
D11704
B0AADM000003
IP11703
K5H1022A0011
C11706
F2A1H5600018
LB11701
J0JHC0000
LB11702
J0JHC0000
C11701
F2A1A2220055
L11701
G0A100HA0023
D11706
B0JAQE000004
C11709
F2A1A6810022
or F2A1A6810024
D11701
B0JCNG000003
L11703
G0A100HA0023
C11707
F2A1C1210017
LB11703
J0JHC0000048
D11703
B0AADM000003
C11703
F2A1C5610006
or F2A1C5610004
C11704
F2A1H5600018
L11704
G0A100HA0023
L11705
VWJ0795=5
R11701
390[22]
R11704
22K[22]
R11702
1K[22]
C11711
0.1[KB][22]
25V
C11712
ECJ2VB1E473K
R11703
3300[22]
R11706
2400[G][22]
R11707
820[G][22]
R11708
100[G][22]
R11709
2400[G][22]
C
A
R
IC11701
#C0DAEMB00003
or C0DAEJC00006
Q11801
B1DHDD000022
D
D
G
D
D
S
R11802
D1BFR0270001
27M[36]
IC11801
C0DBAZZ0013
VIN
V5
VREF
CC
CS
EXT
GND
FB
C11805
180P[22]
50V
R11801
51K[22]
F1J1C105A091
C11802
16V
C11803
0.1[KB][22]
25V
C11804
0.1[KB][22]
25V
6
7
8

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH T
WHEN REPLACING ANY OF THESE

Diagram (P)


TO
POWER SUPPLY SECTION
(2/4)
A
GND
IF
J0JHC0000048
D11720
D11721
B0EAKL000062
B0EAKL000062
J0JHC0000048
D11722
R11720
100[D]
-29V
X_SW6V
X_SW12R5V
LB11703
J0JHC0000048
UNREG36V
L11705
VWJ0795=5
D12V
B1DHDD000022
D
D
S
L11801
G0A220ZA0041
or G0A220ZA0030
D3R8V
LB11801
J0JHC0000048
R11803
220[0.5%][22]
F2A1A6810022
or F2A1A6810024
470[22]
R11807
F1J1C105A091
C11720
IC11720
C0CBCBD00048
V IN
NC
NC
ON[H]
V OUT
NC
CN
GND
27M[36]
C0DBAZZ00131
CS
EXT
GND
FB
R11804
12K[0.5%][22]
C11807
ECJGVB1H103K
B0JCPD000021
C11806
D11801
R11805
5600[0.5%][22]
C11721
F1J1C105A091
C11722
ECJGVB1H103K
F-
F+
16V
50V
LOCATION MAP
1/4
2/4
3/4
4/4

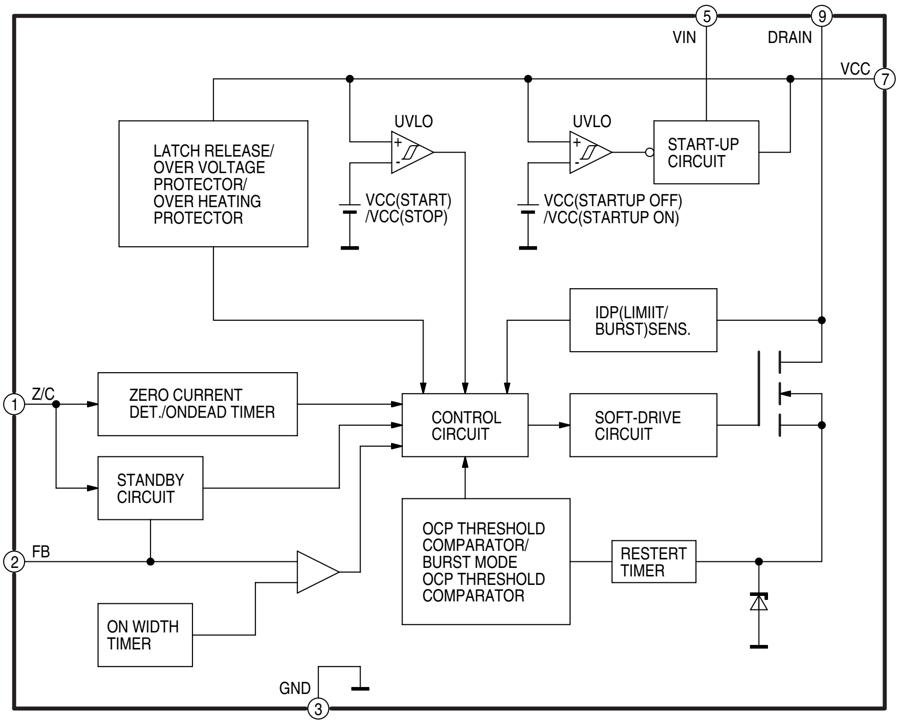
TANT SAFETY NOTICE:
ONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

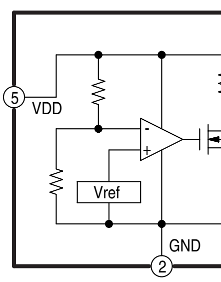
DMR-EH75VP
Power Supply (4/4) Section
(Power & Digital I/F P.C.B.(1/2))
Schematic Diagram(P)

8 9 10

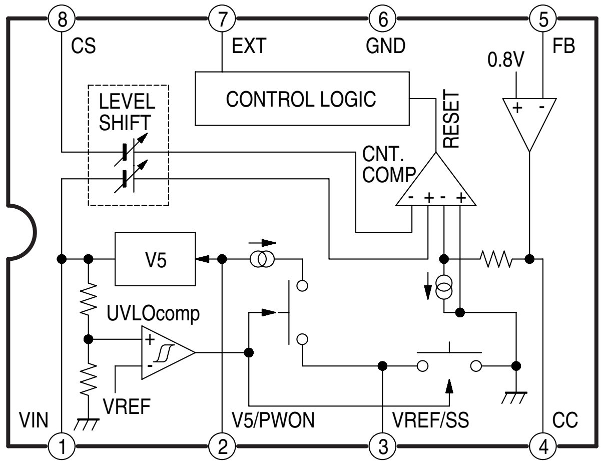
IC11201
SWITCHING IC
IC-DETAIL BLOCK DIAGRAM


5
9
VIN
DRAIN
VCC
7
UVLO
UVLO
LATCH RELEASE/
OVER VOLTAGE
PROTECTOR/
OVER HEATING
PROTECTOR
VCC(START)
/VCC(STOP)
VCC(STARTUP OFF)
/VCC(STARTUP ON)
START-UP
CIRCUIT
IDP(LIMIIT/
BURST)SENS.
1
Z/C
ZERO CURRENT
DET./ONDEAD TIMER
CONTROL
CIRCUIT
SOFT-DRIVE
CIRCUIT
STANDBY
CIRCUIT
2
FB
OCP THRESHOLD
COMPARATOR/
BURST MODE
OCP THRESHOLD
COMPARATOR
RESTERT
TIMER
ON WIDTH
TIMER
GND
3

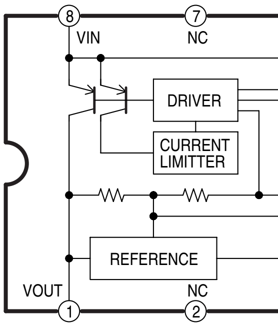
IC11602
RESET IC
IC-DETAIL BLOC


5
VDD
Vref
GND
2

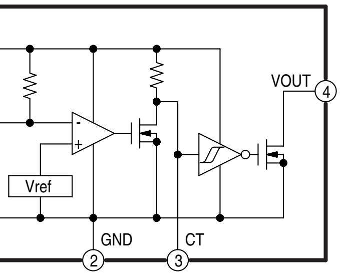
IC11601
DR +5V SWITCHING REGULATOR
IC-DETAIL BLOCK DIAGRAM


8
7
6
5
CS
EXT
GND
FB
0.8V
LEVEL
SHIFT
CONTROL LOGIC
RESET
CNT.
COMP
V5
UVLOcomp
VREF
VIN
V5/PWON
VREF/SS
CC
1
2
3
4

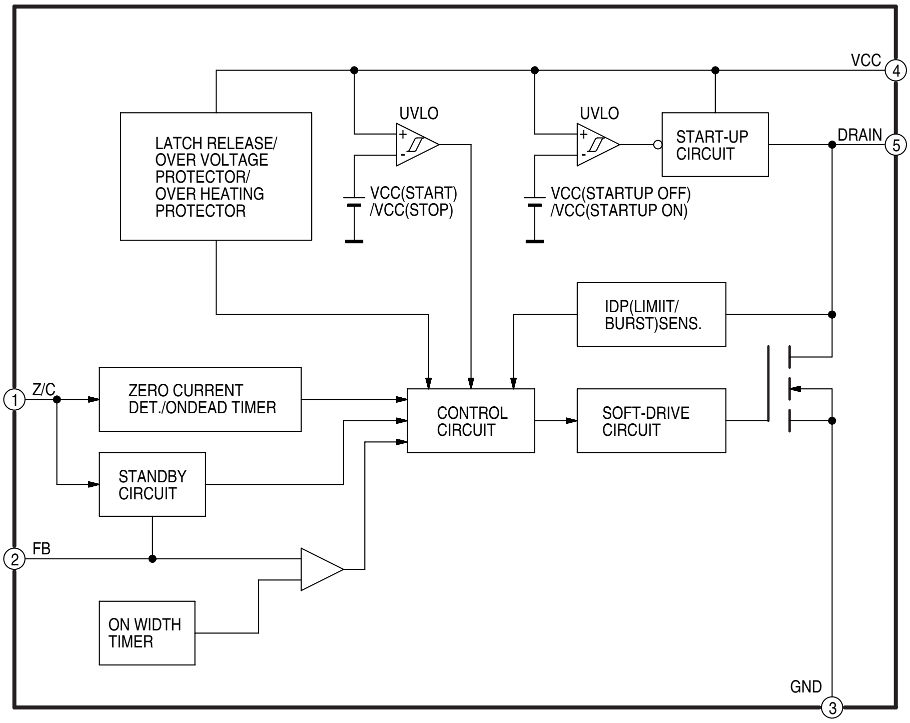
IC11720
F+ SWITCHING
IC-DETAIL BLOC


8
7
VIN
NC
DRIVER
CURRENT
LIMITTER
REFERENCE
VOUT
NC
1
2

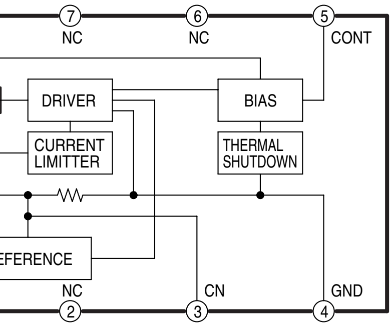
1602
SET IC
DETAIL BLOCK DIAGRAM


VOUT
4
Vref
GND
CT
2
3

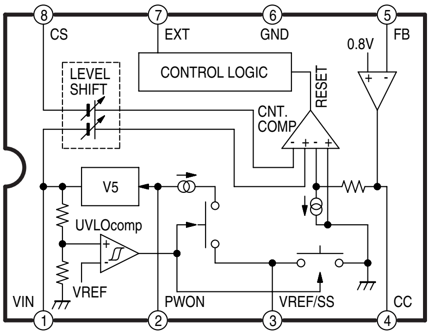
IC11301
SWITCHING IC
IC-DETAIL BLOCK DIAGRAM


VCC
4
UVLO
UVLO
LATCH RELEASE/
OVER VOLTAGE
PROTECTOR/
OVER HEATING
PROTECTOR
VCC(START)
/VCC(STOP)
VCC(STARTUP OFF)
/VCC(STARTUP ON)
START-UP
CIRCUIT
DRAIN
5
IDP(LIMIIT/
BURST)SENS.
1
Z/C
ZERO CURRENT
DET./ONDEAD TIMER
CONTROL
CIRCUIT
SOFT-DRIVE
CIRCUIT
STANDBY
CIRCUIT
2
FB
ON WIDTH
TIMER
GND
3

1720
SWITCHING REGULATOR
DETAIL BLOCK DIAGRAM

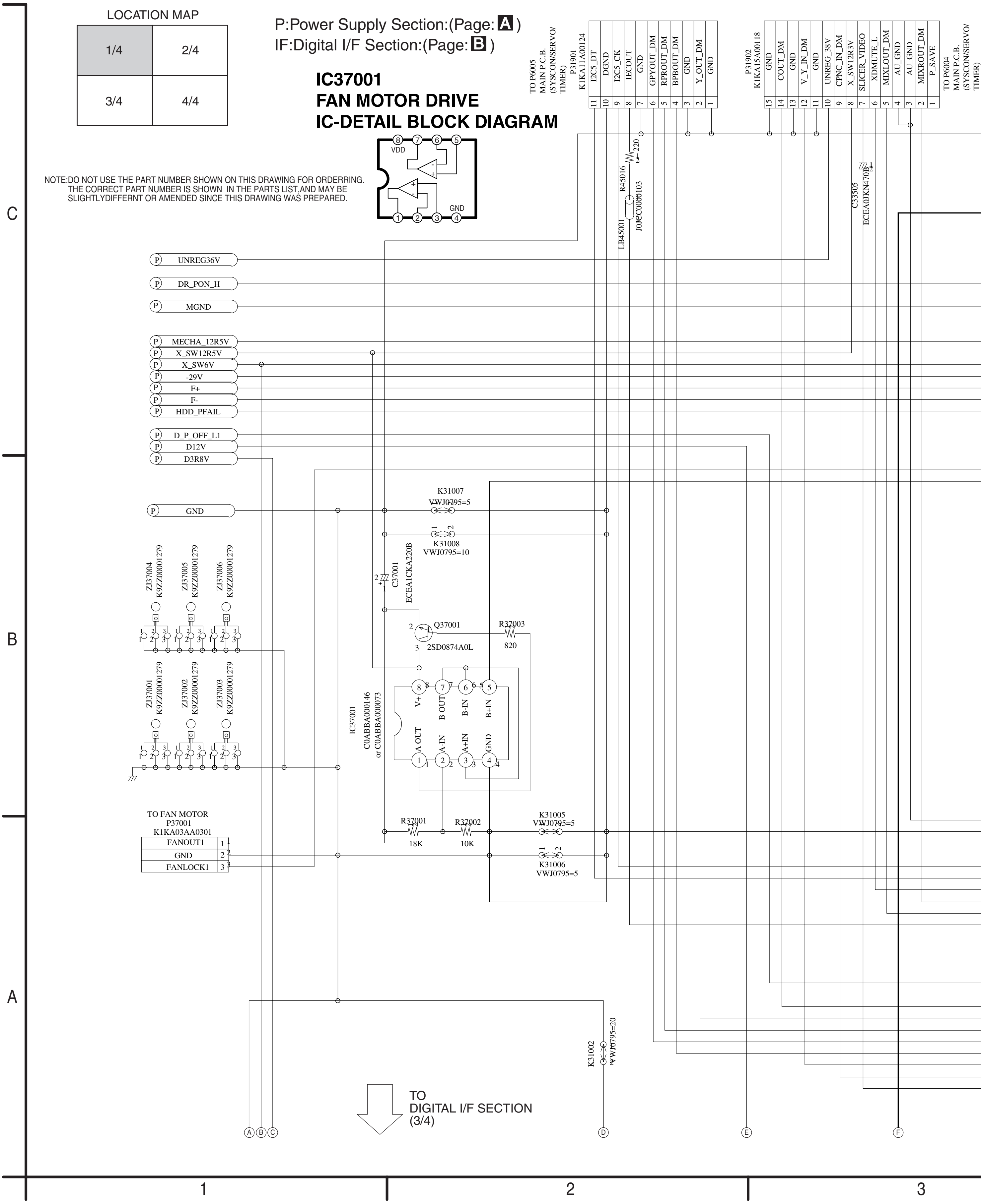

7
6
5
NC
NC
CONT
DRIVER
BIAS
CURRENT
LIMITTER
THERMAL
SHUTDOWN
EFERENCE
NC
CN
GND
2
3
4

IC11801
D +3.8V SWITCHING REGULATOR
IC-DETAIL BLOCK DIAGRAM


8
7
6
5
CS
EXT
GND
FB
0.8V
LEVEL
SHIFT
CONTROL LOGIC
RESET
CNT.
COMP
V5
UVLOcomp
VREF
VIN
PWON
VREF/SS
CC
1
2
3
4

IC11201 Detail Block Diagram
IC11301 Detail Block Diagram
IC11601 Detail Block Diagram
IC11602 Detail Block Diagram
IC11720 Detail Block Diagram
IC11801 Detail Block Diagram
DMR-EH75VP IC-Detail Block Diagram

13.6. Digital I/F (1/4) Section (Power & Digital I/F P.C.B.(2/2)) Schematic Diagram (IF



LOCATION MAP

1/4	2/4
3/4	4/4

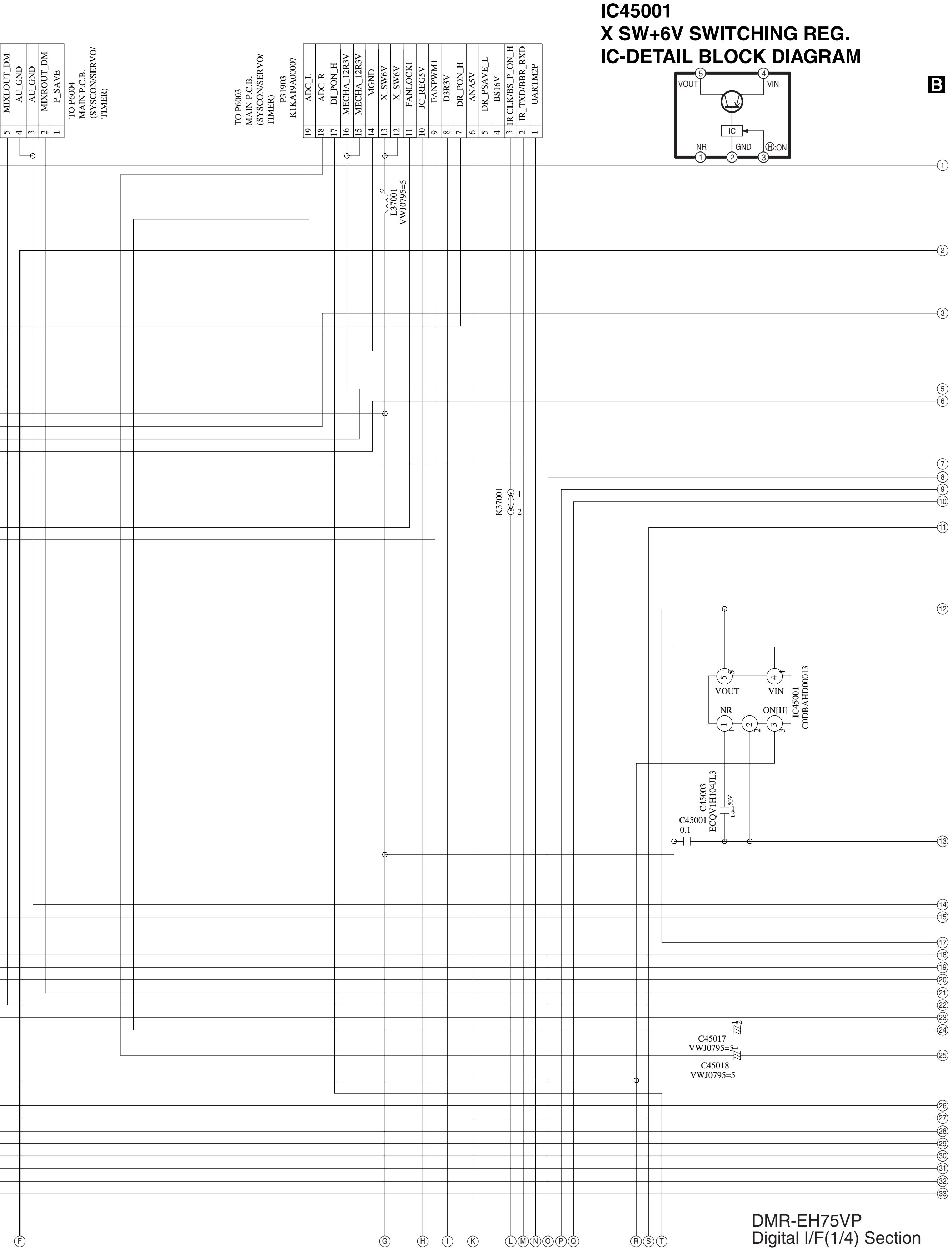
P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

IC37001
FAN MOTOR DRIVE
IC-DETAIL BLOCK DIAGRAM

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

VDD
GND
C
B
A
1
2
3
TO P6005
MAIN P.C.B.
(SYSCON/SERVO/
TIMER)
P31901
K1KA11A00124
I2C5_DT
DGND
I2C5_CK
IECOUT
GND
GPYOUT_DM
RPROUT_DM
BPBOUT_DM
GND
Y_OUT_DM
GND
P31902
K1KA15A00118
GND
COUT_DM
GND
V_Y_IN_DM
GND
UNREG_38V
CPNC_IN_DM
X_SW12R3V
SLICER_VIDEO
XDMUTE_L
MIXLOUT_DM
AU_GND
AU_GND
MIXROUT_DM
P_SAVE
TO P6004
MAIN P.C.B.
(SYSCON/SERVO/
TIMER)
R45016
220
LB45001
J0JCC0000103
C33505
ECEA0JKN470B
UNREG36V
DR_PON_H
MGND
MECHA_12R5V
X_SW12R5V
X_SW6V
-29V
F+
F-
HDD_PFAIL
D_P_OFF_L1
D12V
D3R8V
GND
K31007
VWJ0795=5
K31008
VWJ0795=10
C37001
ECEA1CKA220B
ZJ37004 K9ZZ00001279
ZJ37005 K9ZZ00001279
ZJ37006 K9ZZ00001279
ZJ37001 K9ZZ00001279
ZJ37002 K9ZZ00001279
ZJ37003 K9ZZ00001279
Q37001
2SD0874A0L
R37003
820
IC37001
C0ABBA000146
or C0ABBA000073
V+
B OUT
B-IN
B+IN
A OUT
A-IN
A+IN
GND
TO FAN MOTOR
P37001
K1KA03AA0301
FANOUT1
GND
FANLOCK1
R37001
18K
R37002
10K
K31005
VWJ0795=5
K31006
VWJ0795=5
K31002
VWJ0795=20
TO
DIGITAL I/F SECTION
(3/4)
A
B
C
D
E
F

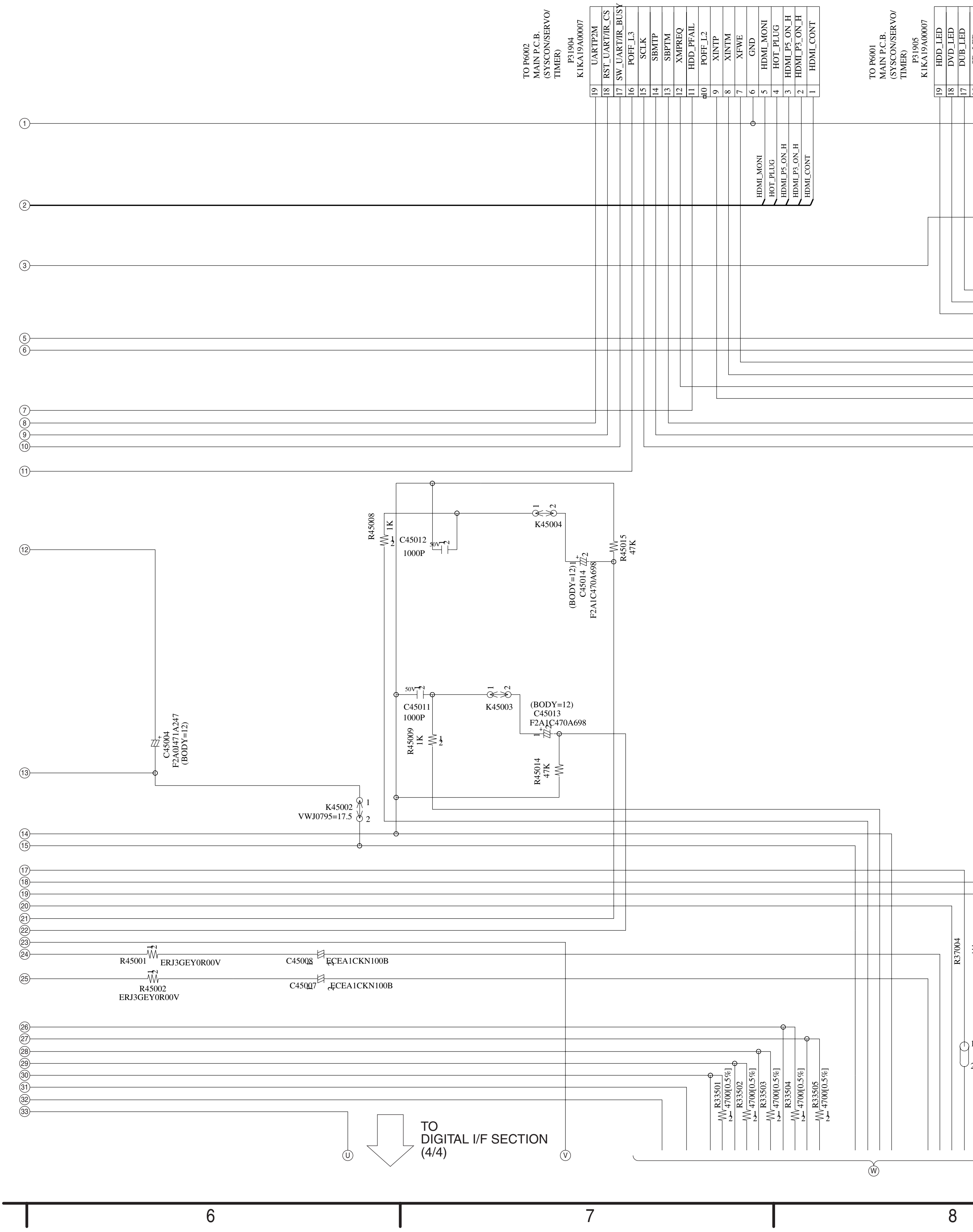
gram (IF)


IC45001
X SW+6V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM
VOUT
VIN
IC
NR
GND
H:ON
B
5 MIXLOUT_DM
4 AU_GND
3 AU_GND
2 MIXROUT_DM
1 P_SAVE
TO P6004
MAIN P.C.B.
(SYSCON/SERVO/
TIMER)
TO P6003
MAIN P.C.B.
(SYSCON/SERVO/
TIMER)
P31903
K1KA19A00007
19 ADC_L
18 ADC_R
17 DI_PON_H
16 MECHA_12R3V
15 MECHA_12R3V
14 MGND
13 X_SW6V
12 X_SW6V
11 FANLOCK1
10 JC_REG5V
9 FANPWM1
8 D3R3V
7 DR_PON_H
6 ANA5V
5 DR_PSAVE_L
4 BS16V
3 IR CLK/BS_P_ON_H
2 IR_TXD/BBR_RXD
1 UARTM2P
L37001
VWJ0795=5
K37001
IC45001
C0DBAHD00013
VOUT
VIN
NR
ON[H]
C45003
ECQV1H104JL3
50V
C45001
0.1
C45017
VWJ0795=5
C45018
VWJ0795=5
①
②
③
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑰
⑱
⑲
⑳
㉑
㉒
㉓
㉔
㉕
㉖
㉗
㉘
㉙
㉚
㉛
㉜
㉝
F
G
H
I
K
L
M
N
O
P
Q
R
S
T

DMR-EH75VP
Digital I/F(1/4) Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram(IF)

3
4
5

13.7. Digital I/F (2/4) Section (Power & Digital I/F P.C.B.(2/2)) Schematic Diagram



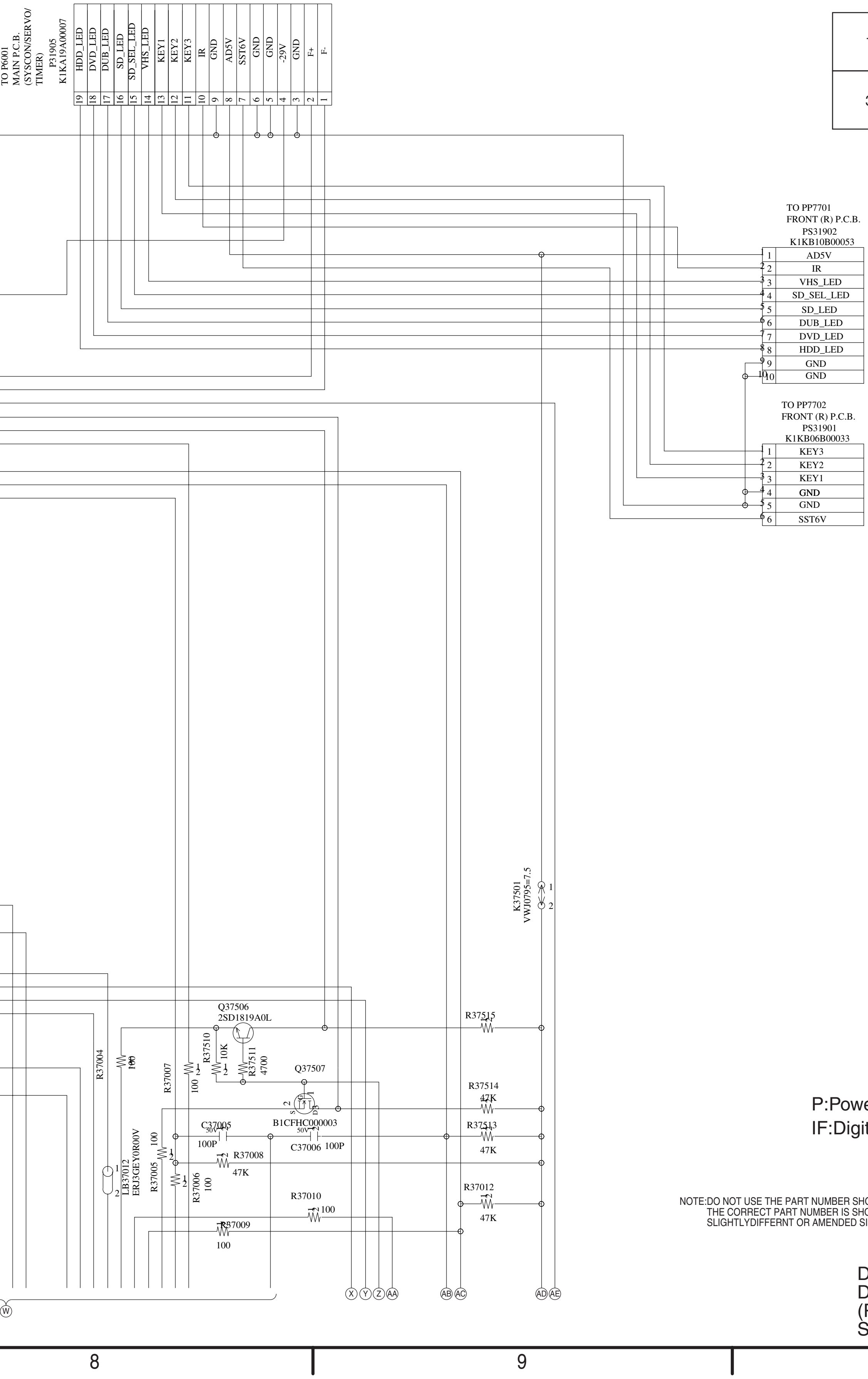
TO P6002
MAIN P.C.B.
(SYSCON/SERVO/
TIMER)
P31904
K1KA19A00007
19 UARTP2M
18 RST_UART/IR_CS
17 SW_UART/IR_BUSY
16 POFF_L3
15 SCLK
14 SBMTP
13 SBPTM
12 XMPREQ
11 HDD_PFAIL
10 POFF_L2
9 XINTP
8 XINTM
7 XFWE
6 GND
5 HDMI_MONI
4 HOT_PLUG
3 HDMI_P5_ON_H
2 HDMI_P3_ON_H
1 HDMI_CONT
HDMI_MONI
HOT_PLUG
HDMI_P5_ON_H
HDMI_P3_ON_H
HDMI_CONT
TO P6001
MAIN P.C.B.
(SYSCON/SERVO/
TIMER)
P31905
K1KA19A00007
19 HDD_LED
18 DVD_LED
17 DUB_LED
①
②
③
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑰
⑱
⑲
⑳
㉑
㉒
㉓
㉔
㉕
㉖
㉗
㉘
㉙
㉚
㉛
㉜
㉝
R45008
1K
C45012
50V
1000P
K45004
R45015
47K
(BODY=12)
C45014
F2A1C470A698
C45011
50V
1000P
K45003
(BODY=12)
C45013
F2A1C470A698
R45009
1K
R45014
47K
C45004
F2A0J471A247
(BODY=12)
K45002
VWJ0795=17.5
R45001
ERJ3GEY0R00V
R45002
ERJ3GEY0R00V
C45008
ECEA1CKN100B
C45007
ECEA1CKN100B
R37004
R33501
4700[0.5%]
R33502
4700[0.5%]
R33503
4700[0.5%]
R33504
4700[0.5%]
R33505
4700[0.5%]
TO
DIGITAL I/F SECTION
(4/4)
Ⓤ
Ⓥ
Ⓦ
6
7
8

Diagram (IF)

LOCATION MAP

1/4	2/4
3/4	4/4

B



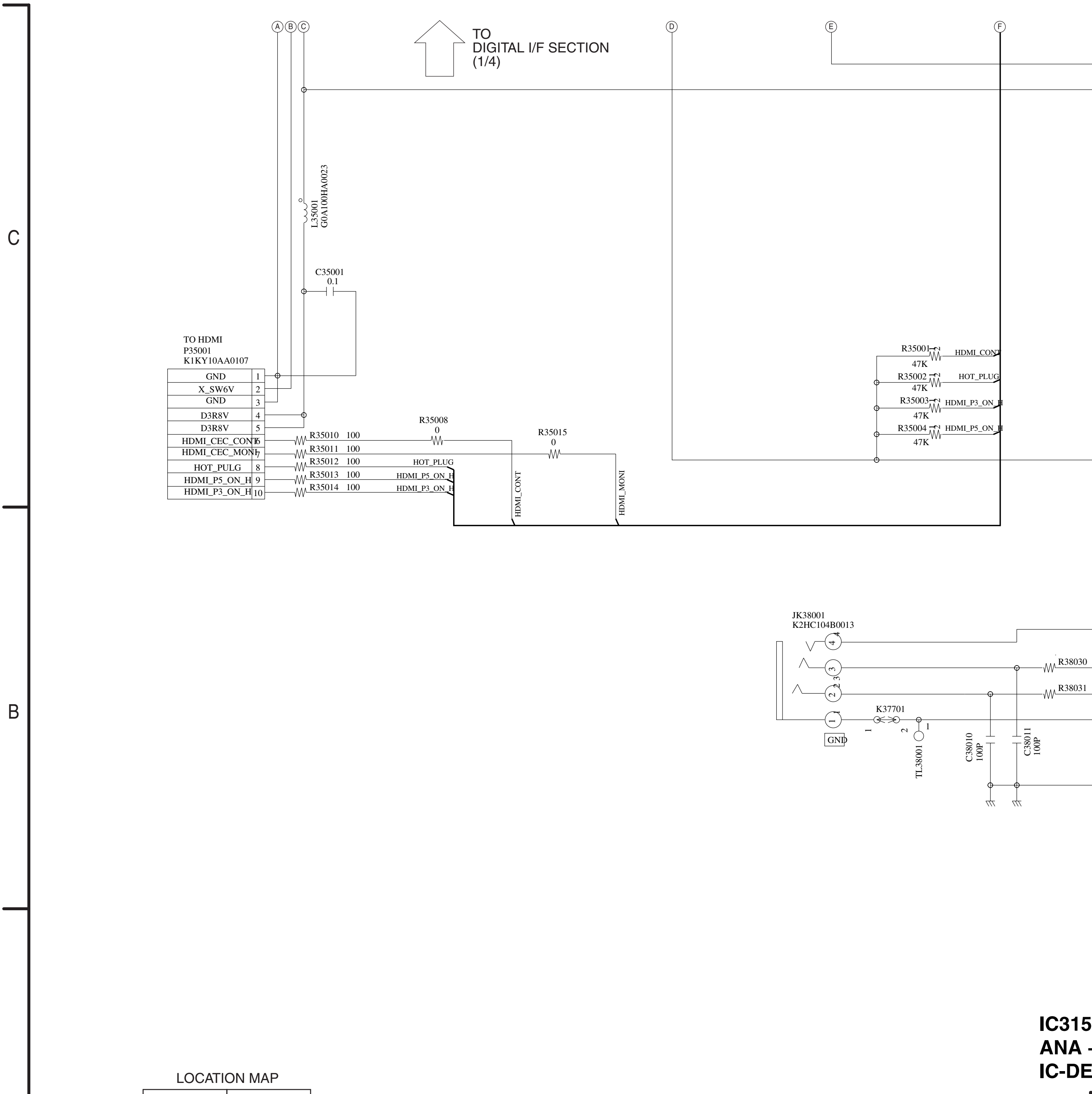
TO P6001
MAIN P.C.B.
(SYSCON/SERVO/
TIMER)
P31905
K1KA19A00007
19 HDD_LED
18 DVD_LED
17 DUB_LED
16 SD_LED
15 SD_SEL_LED
14 VHS_LED
13 KEY1
12 KEY2
11 KEY3
10 IR
9 GND
8 AD5V
7 SST6V
6 GND
5 GND
4 -29V
3 GND
2 F+
1 F-
TO PP7701
FRONT (R) P.C.B.
PS31902
K1KB10B00053
1 AD5V
2 IR
3 VHS_LED
4 SD_SEL_LED
5 SD_LED
6 DUB_LED
7 DVD_LED
8 HDD_LED
9 GND
10 GND
TO PP7702
FRONT (R) P.C.B.
PS31901
K1KB06B00033
1 KEY3
2 KEY2
3 KEY1
4 GND
5 GND
6 SST6V
K37501
VWJ0795=7.5
Q37506
2SD1819A0L
R37515
R37004
100
R37007
100
R37510
10K
R37511
4700
Q37507
B1CFHC000003
R37514
47K
C37005
50V
100P
C37006
50V
100P
R37513
47K
R37008
47K
LB37012
ERJ3GEY0R00V
R37005
100
R37006
100
R37012
47K
R37010
100
R37009
100
X
Y
Z
AA
AB
AC
AD
AE
W
8
9
10

P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH75VP
Digital I/F(2/4) Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram(IF)

13.8. Digital I/F (3/4) Section (Power & Digital I/F P.C.B.(2/2)) Schematic Diagram (IF)


C
B
A
A
B
C
D
E
F
TO
DIGITAL I/F SECTION
(1/4)
L35001
G0A100HA0023
C35001
0.1
TO HDMI
P35001
K1KY10AA0107
GND 1
X_SW6V 2
GND 3
D3R8V 4
D3R8V 5
HDMI_CEC_CONT 6
HDMI_CEC_MONI 7
HOT_PULG 8
HDMI_P5_ON_H 9
HDMI_P3_ON_H 10
R35010 100
R35011 100
R35012 100
R35013 100
R35014 100
R35008
0
R35015
0
HOT_PLUG
HDMI_P5_ON_H
HDMI_P3_ON_H
HDMI_CONT
HDMI_MONI
R35001
47K
HDMI_CONT
R35002
47K
HOT_PLUG
R35003
47K
HDMI_P3_ON_H
R35004
47K
HDMI_P5_ON_H
JK38001
K2HC104B0013
4
3
2
1
GND
K37701
TL38001
C38010
100P
C38011
100P
R38030
R38031
IC315
ANA -
IC-DE

LOCATION MAP

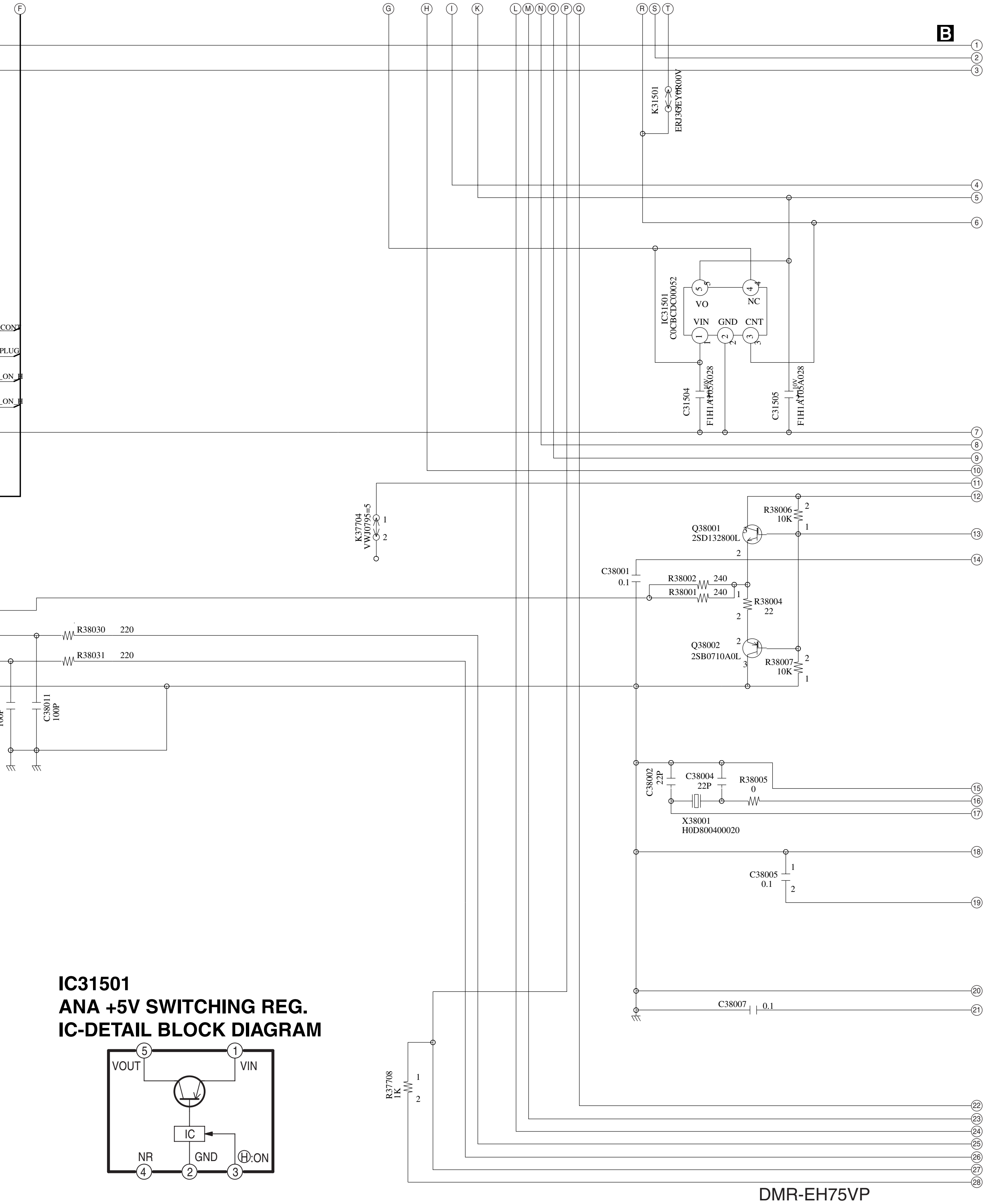
1/4	2/4
3/4	4/4

P:Power Supply Section:(Page: A)
IF:Digital I/F Section:(Page: B)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

1
2
3

gram (IF)


F
G
H
I
K
L
M
N
O
P
Q
R
S
T
B
K31501
ERJ3GEY0R00V
IC31501
C0CBCDC00052
VO
NC
VIN
GND
CNT
C31504
F1H1A105A028
C31505
F1H1A105A028
CONT
PLUG
_ON_H
_ON_H
K37704
VWJ0795=5
Q38001
2SD132800L
R38006
10K
C38001
0.1
R38002 240
R38001 240
R38004
22
Q38002
2SB0710A0L
R38007
10K
R38030 220
R38031 220
C38011
100P
100P
C38002
22P
C38004
22P
R38005
0
X38001
H0D800400020
C38005
0.1
C38007 0.1
R37708
1K
VOUT
VIN
IC
NR
GND
Ⓗ:ON
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑
㉒
㉓
㉔
㉕
㉖
㉗
㉘

IC31501
ANA +5V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM

DMR-EH75VP
Digital I/F(3/4) Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram(IF)

3 4 5

13.9. Digital I/F (4/4) Section (Power & Digital I/F P.C.B.(2/2)) Schematic Diagram

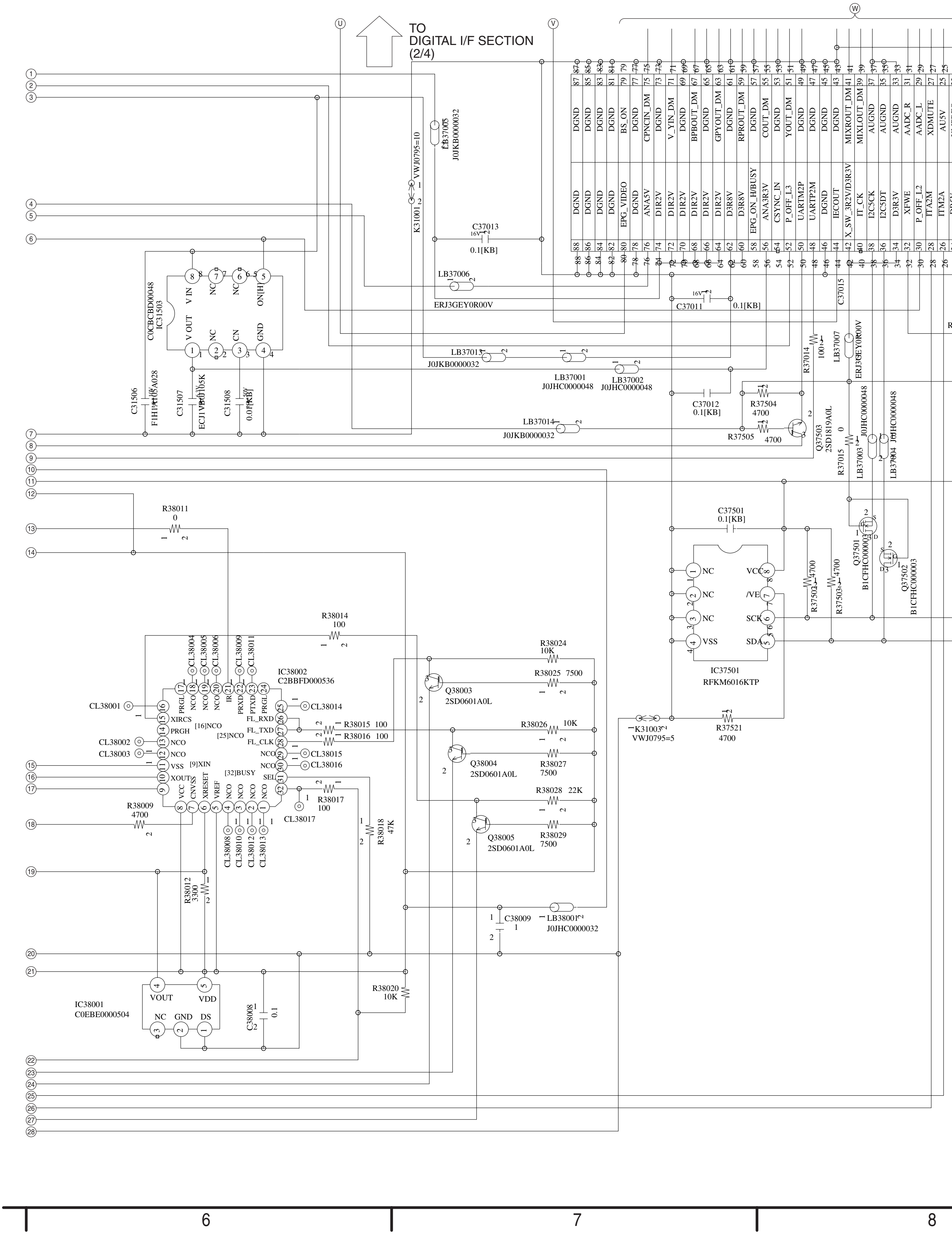
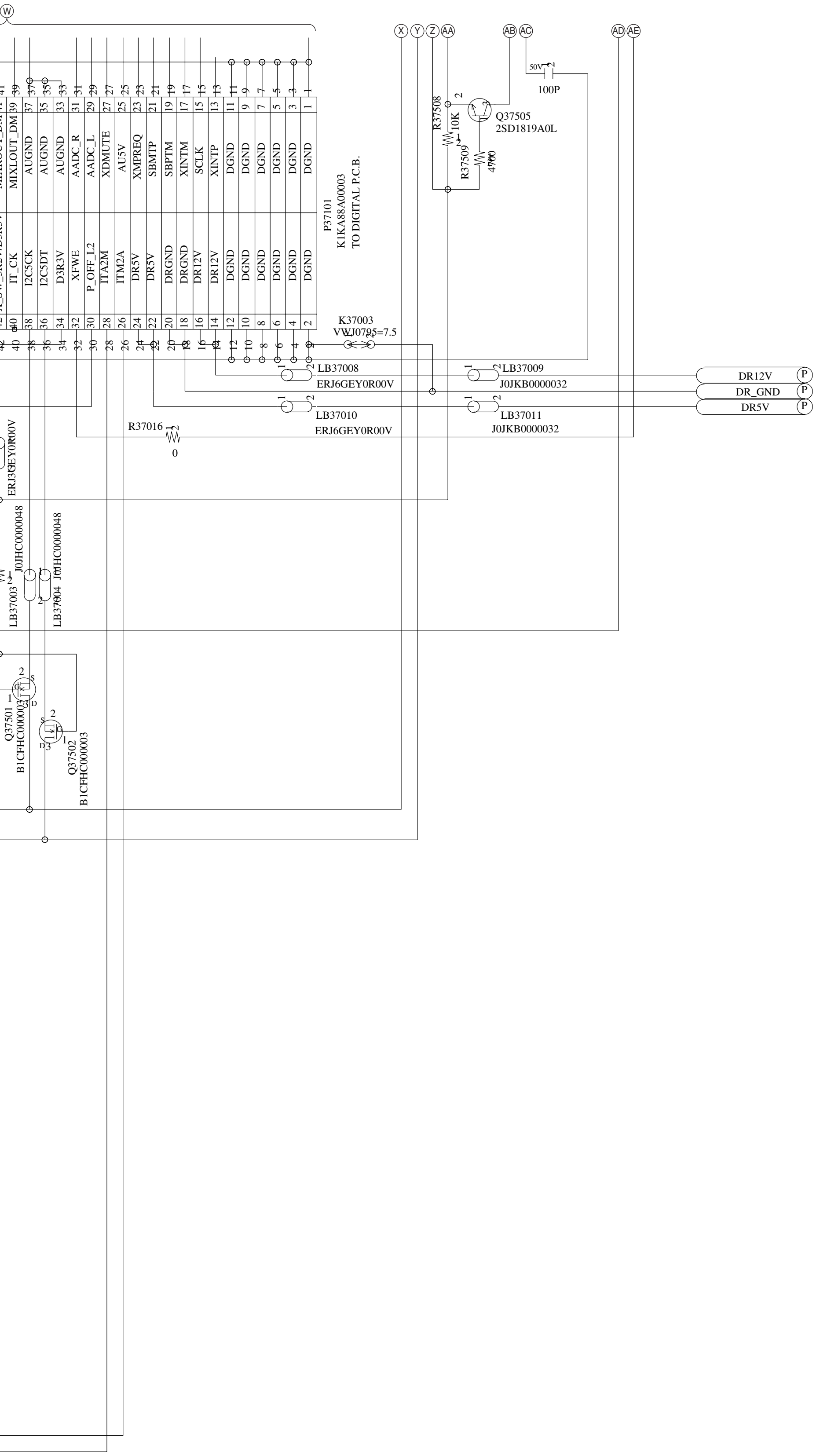

TO DIGITAL I/F SECTION (2/4)
U
V
W
DGND
BS_ON
EPG_VIDEO
CPNCIN_DM
ANA5V
D1R2V
V_YIN_DM
BPBOUT_DM
GPYOUT_DM
D3R8V
RPROUT_DM
EPG_ON_H/BUSY
COUT_DM
ANA3R3V
CSYNC_IN
YOUT_DM
P_OFF_L3
UARTM2P
UARTP2M
IECOUT
MIXROUT_DM
X_SW_3R2V/D3R3V
MIXLOUT_DM
IT_CK
AUGND
I2C5CK
I2C5DT
D3R3V
AADC_R
XFWE
AADC_L
P_OFF_L2
XDMUTE
ITA2M
AU5V
LB37005
J0JKB0000032
K31001
VWJ0795=10
C37013
0.1[KB]
LB37006
ERJ3GEY0R00V
C37011
0.1[KB]
C37015
IC31503
C0CBCBD00048
V IN
NC
ON[H]
V OUT
CN
GND
C31506
F1H1A105A028
C31507
ECJ1VB0J105K
C31508
0.01[KB]
LB37013
J0JKB0000032
LB37001
J0JHC0000048
LB37002
J0JHC0000048
C37012
0.1[KB]
R37504
4700
R37505
4700
R37014
100
LB37007
ERJ3GEY0R00V
Q37503
2SD1819A0L
R37015
0
LB37003
J0JHC0000048
LB37004
J0JHC0000048
LB37014
J0JKB0000032
R38011
0
C37501
0.1[KB]
Q37501
B1CFHC000003
Q37502
B1CFHC000003
R37502
4700
R37503
4700
IC37501
RFKM6016KTP
NC
VCC
/VE
SCK
VSS
SDA
K31003
VWJ0795=5
R37521
4700
R38014
100
IC38002
C2BBFD000536
CL38004
CL38005
CL38006
CL38009
CL38011
CL38001
PRGL
NCO
IR
PRXD
PTXD
XIRCS
PRGH
[16]NCO
[25]NCO
FL_RXD
FL_TXD
FL_CLK
CL38014
CL38002
CL38003
CL38015
CL38016
VSS
[9]XIN
XOUT
[32]BUSY
SEL
VCC
CNVSS
XRESET
VREF
CL38017
R38015 100
R38016 100
R38017 100
R38018 47K
R38009 4700
CL38008
CL38010
CL38012
CL38013
R38024 10K
R38025 7500
Q38003 2SD0601A0L
R38026 10K
R38027 7500
Q38004 2SD0601A0L
R38028 22K
R38029 7500
Q38005 2SD0601A0L
R38012 3300
C38009 1
LB38001
J0JHC0000032
IC38001
C0EBE0000504
VOUT
VDD
NC
GND
DS
C38008 0.1
R38020 10K
6
7
8

Diagram (IF)



W
X
Y
Z
AA
AB
AC
AD
AE
B
MIXLOUT_DM
AUGND
AADC_R
AADC_L
XDMUTE
AU5V
XMPREQ
SBMTP
SBPTM
XINTM
SCLK
XINTP
DGND
IT_CK
I2C5CK
I2C5DT
D3R3V
XFWE
P_OFF_L2
ITA2M
ITM2A
DR5V
DRGND
DR12V
P37101
K1KA88A00003
TO DIGITAL P.C.B.
K37003
VWJ0795=7.5
LB37008
ERJ6GEY0R00V
LB37009
J0JKB0000032
LB37010
ERJ6GEY0R00V
LB37011
J0JKB0000032
DR12V
DR_GND
DR5V
P
R37016
0
R37508
10K
R37509
4700
Q37505
2SD1819A0L
50V
100P
ERJ3GEY0R00V
J0JHC0000048
LB37003
LB37004
Q37501
B1CFHC000003
Q37502
B1CFHC000003

P:Power Supply Section:(Page: **A**)
IF:Digital I/F Section:(Page: **B**)

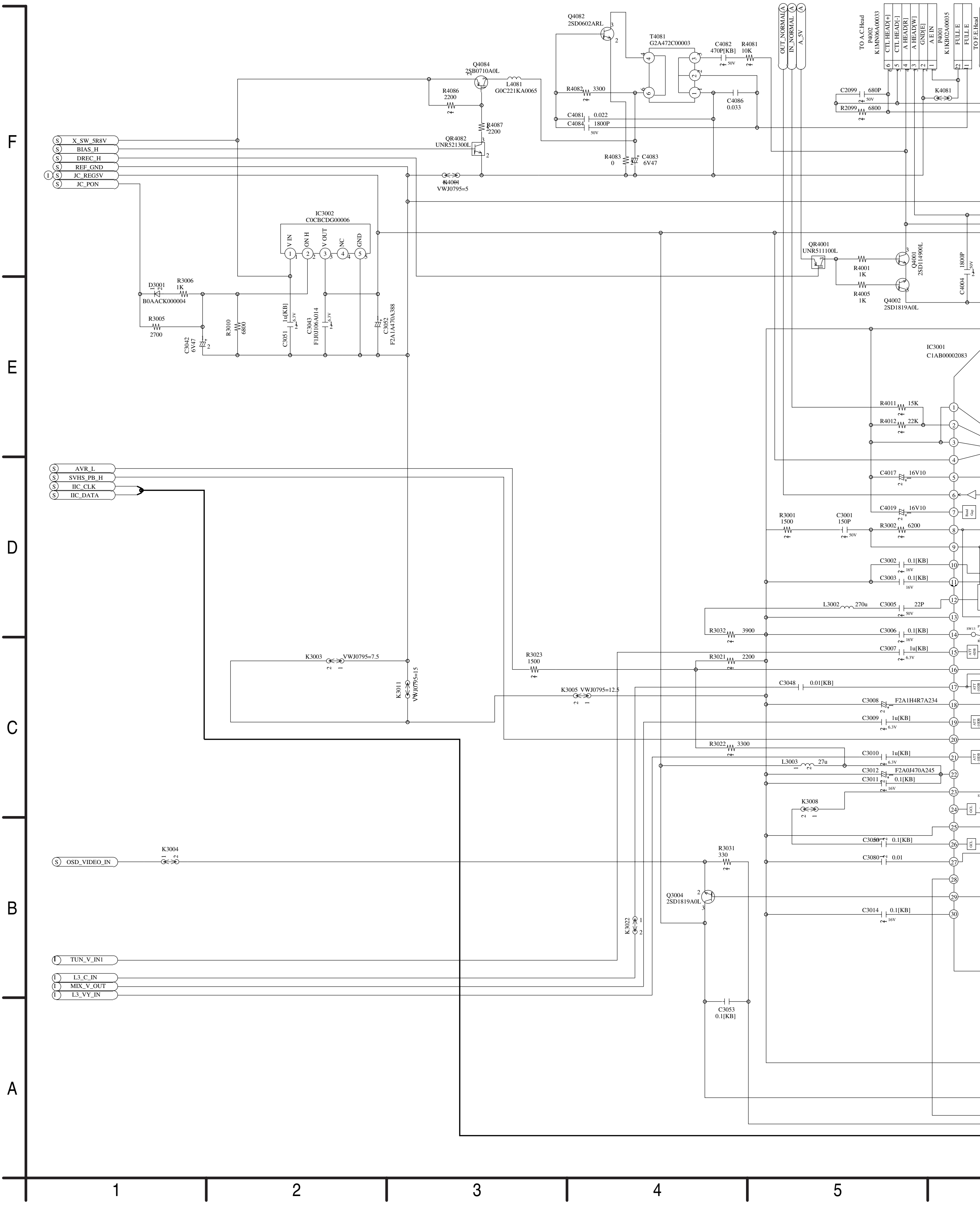
LOCATION MAP

1/4	2/4
3/4	4/4

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH75VP
Digital I/F(4/4) Section
(Power & Digital I/F P.C.B.(2/2))
Schematic Diagram(IF)

13.10. Video Section (Main P.C.B.(1/4)) Schematic Diagram Schematic Diagram (V)


F
E
D
C
B
A
1
2
3
4
5
X_SW_5R8V
BIAS_H
DREC_H
REF_GND
JC_REG5V
JC_PON
AVR_L
SVHS_PB_H
IIC_CLK
IIC_DATA
OSD_VIDEO_IN
TUN_V_IN1
L3_C_IN
MIX_V_OUT
L3_VY_IN
Q4082
2SD0602ARL
Q4084
2SB0710A0L
L4081
G0C221KA0065
R4086
2200
R4087
2200
QR4082
UNR521300L
T4081
G2A472C00003
C4082
470P[KB]
R4081
10K
R4082
3300
C4081
0.022
C4084
1800P
C4086
0.033
R4083
0
C4083
6V47
K4001
VWJ0795=5
OUT_NORMAL
IN_NORMAL
A_5V
TO A.C.Head
P4002
K1MN06A00033
CTL HEAD[+]
CTL HEAD[-]
A HEAD[R]
A HEAD[W]
GND[E]
A E IN
P4001
K1KB02A00035
FULL E
TO F.E.Head
C2099
680P
R2099
6800
K4081
IC3002
C0CBCDG00006
V IN
ON H
V OUT
NC
GND
D3001
B0AACK000004
R3006
1K
R3005
2700
C3042
6V47
R3010
6800
C3051
1u[KB]
C3043
F1J0J106A014
C3052
F2A1A470A388
QR4001
UNR511100L
R4001
1K
R4005
1K
Q4001
2SD1149000L
Q4002
2SD1819A0L
C4004
1800P
IC3001
C1AB00002083
R4011
15K
R4012
22K
C4017
16V10
C4019
16V10
R3001
1500
C3001
150P
R3002
6200
C3002
0.1[KB]
C3003
0.1[KB]
L3002
270u
C3005
22P
R3032
3900
C3006
0.1[KB]
C3007
1u[KB]
R3021
2200
K3003
VWJ0795=7.5
K3011
VWJ0795=15
R3023
1500
K3005
VWJ0795=12.5
C3048
0.01[KB]
C3008
F2A1H4R7A234
C3009
1u[KB]
R3022
3300
L3003
27u
C3010
1u[KB]
C3012
F2A0J470A245
C3011
0.1[KB]
K3008
C3050
0.1[KB]
C3080
0.01
K3004
R3031
330
Q3004
2SD1819A0L
C3014
0.1[KB]
K3022
C3053
0.1[KB]

am (V)

C

V:Video Section:(Page: C)
A:VHS Audio Section:(Page: D)
S:Syscon/Servo/Timer Section:(Page: E)
I:I/O Tuner Section:(Page: F)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
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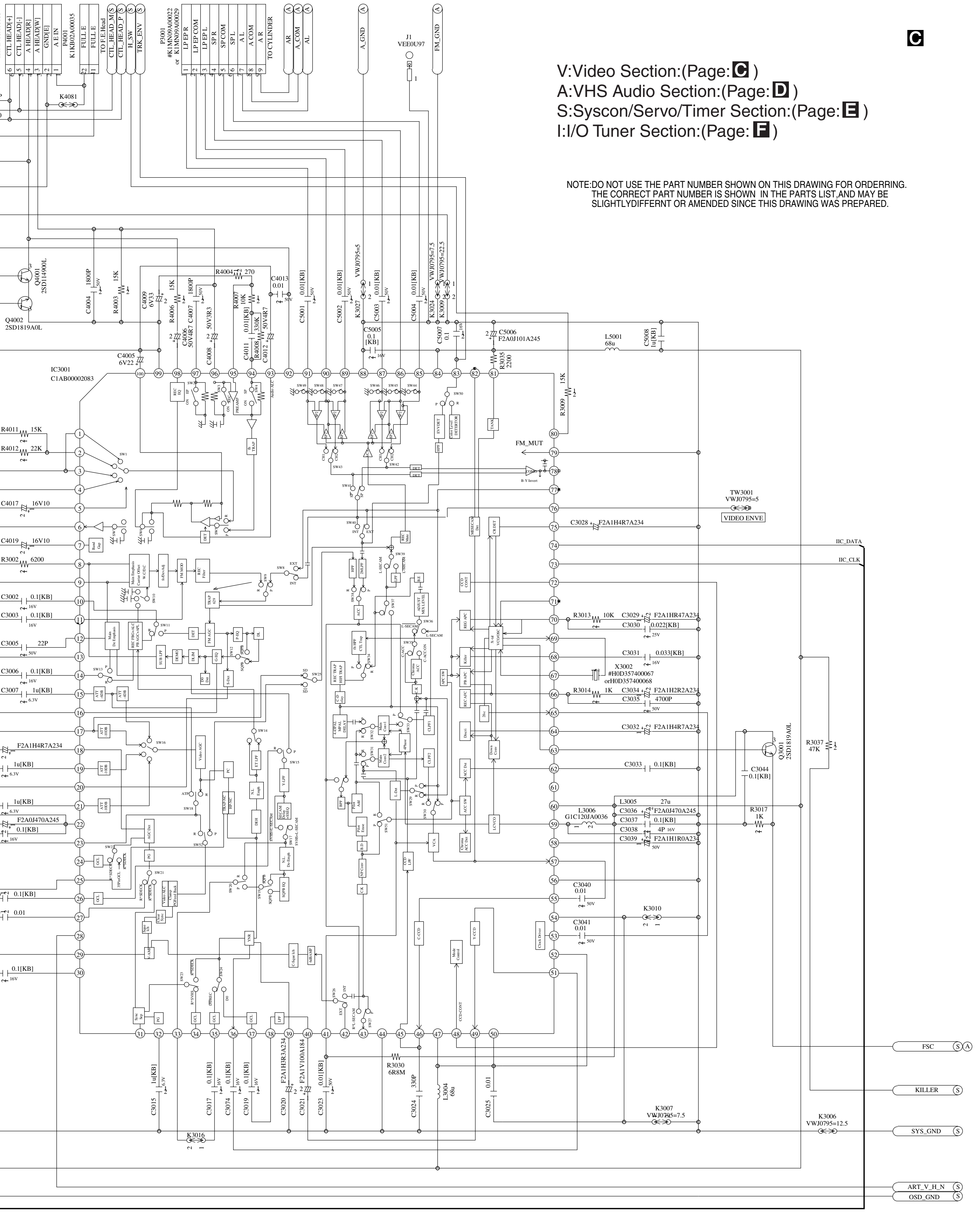
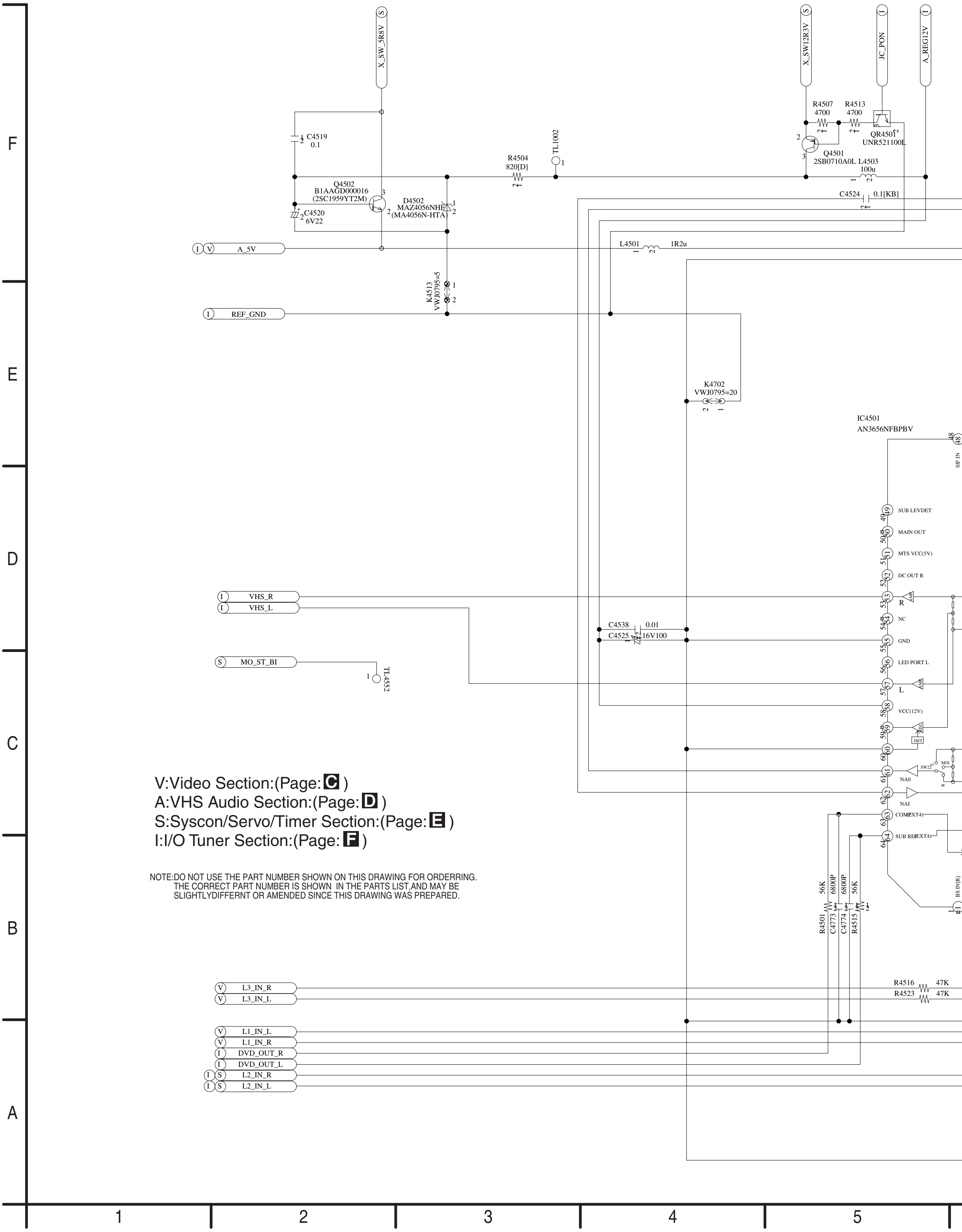
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.


CTL HEAD[+]
CTL HEAD[-]
A HEAD[R]
A HEAD[W]
GND[E]
A E IN
P4001
K1KB02A00035
FULL E
FULL E
TO F.E.Head
CTL_HEAD_M
CTL_HEAD_P
H_SW
TRK_ENV
P3001
#K1MN09A00022
or K1MN09A00029
LP EP R
LP EP COM
LP EP L
SP R
SP COM
SP L
A L
A COM
A R
TO CYLINDER
AR
A_COM
AL
A_GND
J1
VEE0U97
FM_GND
K4081
Q4001
2SD1149002L
Q4002
2SD1819A0L
C4004 1800P
R4003 15K
C4009 6V33
R4006 15K
C4007 1800P
C4006 50V4R7
C4008 50V3R3
R4004 270
R4007 10K
C4011 0.01[KB]
R4008 330K
C4012 50V4R7
C4013 0.01
C5001 0.01[KB]
C5002 0.01[KB]
K3027
VWJ0795=5
C5003 0.01[KB]
C5005 0.1 [KB]
C5004 0.01[KB]
K3024 VWJ0795=7.5
K3009 VWJ0795=22.5
C5007 0.1
C5006 F2A0J101A245
R3035 2200
L5001 68u
C5008 1u[KB]
C4005 6V22
IC3001
C1AB00002083
R3009 15K
R4011 15K
R4012 22K
C4017 16V10
C4019 16V10
R3002 6200
C3002 0.1[KB]
C3003 0.1[KB]
C3005 22P
C3006 0.1[KB]
C3007 1u[KB]
F2A1H4R7A234
1u[KB]
1u[KB]
F2A0J470A245
0.1[KB]
0.1[KB]
0.01
0.1[KB]
FM_MUT
TW3001
VWJ0795=5
VIDEO ENVE
C3028 F2A1H4R7A234
IIC_DATA
IIC_CLK
R3013 10K
C3029 F2A1HR47A234
C3030 0.022[KB]
C3031 0.033[KB]
X3002
#H0D357400067
orH0D357400068
R3014 1K
C3034 F2A1H2R2A234
C3035 4700P
C3032 F2A1H4R7A234
R3037 47K
Q3001
2SD1819A0L
C3033 0.1[KB]
C3044 0.1[KB]
L3005 27u
L3006
G1C120JA0036
C3036 F2A0J470A245
C3037 0.1[KB]
C3038 4P
C3039 F2A1H1R0A234
R3017 1K
C3040 0.01
K3010
C3041 0.01
C3015 1u[KB]
C3017 0.1[KB]
C3074 0.1[KB]
C3019 0.1[KB]
C3020 F2A1H3R3A234
C3021 F2A1V100A184
C3023 0.01[KB]
R3030 6R8M
C3024 330P
L3004 68u
C3025 0.01
K3016
K3007
VWJ0795=7.5
K3006
VWJ0795=12.5
FSC
KILLER
SYS_GND
ART_V_H_N
OSD_GND

DMR-EH75VP
Video Section (Main P.C.B.(1/4)) Schematic Diagram(V)

6 7 8 9 10

13.11. VHS Audio Section (Main P.C.B.(2/4)) Schematic Diagram (A)


F
E
D
C
B
A
1
2
3
4
5
X_SW_5R8V
S
X_SW12R3V
JC_PON
A_REG12V
I
C4519
0.1
R4504
820[D]
TL1002
R4507
4700
R4513
4700
QR4501
UNR521100L
Q4501
2SB0710A0L
L4503
100u
Q4502
B1AAGD000016
(2SC1959YT2M)
D4502
MAZ4056NHF
(MA4056N-HTA)
C4520
6V22
C4524
0.1[KB]
A_5V
L4501
1R2u
K4513
VWJ0795=5
REF_GND
K4702
VWJ0795=20
IC4501
AN3656NFBPBV
SIF IN
SUB LEVDET
MAIN OUT
MTS VCC(5V)
DC OUT R
R
NC
GND
LED PORT L
L
VCC(12V)
DET
SW22
MIX
NA0
NAI
COMP(EXT4)
SUB REF(EXT4)
BS IN[R]
VHS_R
VHS_L
C4538
0.01
C4525
16V100
MO_ST_BI
TL4552
R4501
56K
C4773
6800P
C4774
6800P
R4515
56K
R4516
47K
R4523
47K
L3_IN_R
L3_IN_L
L1_IN_L
L1_IN_R
DVD_OUT_R
DVD_OUT_L
L2_IN_R
L2_IN_L

V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
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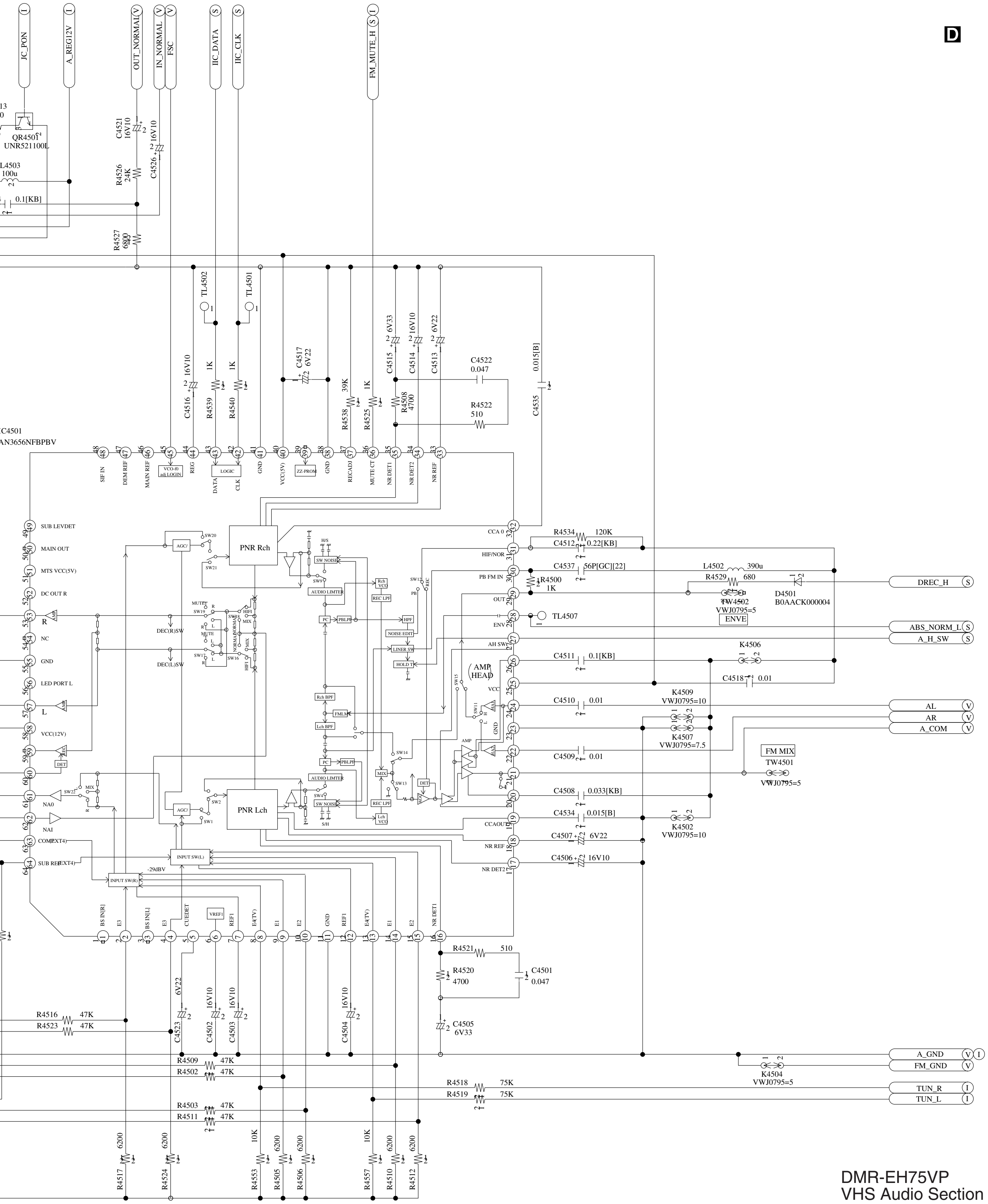
D


JC_PON
A_REG12V
OUT_NORMAL
IN_NORMAL
FSC
IIC_DATA
IIC_CLK
FM_MUTE_H
QR4501
UNR521100L
L4503
100u
0.1[KB]
C4521
16V10
C4526
16V10
R4526
24K
R4527
680
TL4502
TL4501
C4516
16V10
R4539
1K
R4540
1K
C4517
6V22
R4538
39K
R4525
1K
C4515
6V33
C4514
16V10
C4513
6V22
R4508
4700
C4522
0.047
R4522
510
C4535
0.015[B]
IC4501
AN3656NFBPBV
SIF IN
DEM REF
MAIN REF
VCO-f0 adj LOGIN
REG
DATA
LOGIC
CLK
GND
VCC(5V)
ZZ-PROM
RECADJ
MUTE CT
NR DET1
NR DET2
NR REF
SUB LEVDET
MAIN OUT
MTS VCC(5V)
DC OUT R
NC
LED PORT L
VCC(12V)
NA0
NAI
COMP(EXT4)
SUB REF(EXT4)
PNR Rch
PNR Lch
AGC
SW NOISE
AUDIO LIMTER
REC LPF
Rch VCO
Lch VCO
HPF
NOISE EDIT
LINER SW
HOLD T
Rch BPF
Lch BPF
FMLM
MIX
DET
INPUT SW(R)
INPUT SW(L)
DEC(R)SW
DEC(L)SW
-29dBV
AMP HEAD
CCA 0
HIF/NOR
PB FM IN
OUT
ENV
AH SW
VCC
GND
CCAOUT
NR REF
NR DET2
R4534
120K
C4512
0.22[KB]
C4537
56P[GC][22]
R4500
1K
L4502
390u
R4529
680
TW4502
VWJ0795=5
ENVE
D4501
B0AACK000004
TL4507
C4511
0.1[KB]
K4506
C4518
0.01
C4510
0.01
K4509
VWJ0795=10
K4507
VWJ0795=7.5
C4509
0.01
FM MIX
TW4501
VWJ0795=5
C4508
0.033[KB]
C4534
0.015[B]
K4502
VWJ0795=10
C4507
6V22
C4506
16V10
DREC_H
ABS_NORM_L
A_H_SW
AL
AR
A_COM
BS IN[R]
E3
BS IN[L]
CUEDET
VREF
REFI
E4(TV)
E1
E2
R4521
510
R4520
4700
C4501
0.047
C4505
6V33
C4523
6V22
C4502
16V10
C4503
16V10
C4504
16V10
R4516
47K
R4523
47K
R4509
47K
R4502
47K
R4503
47K
R4511
47K
R4518
75K
R4519
75K
K4504
VWJ0795=5
A_GND
FM_GND
TUN_R
TUN_L
R4517
6200
R4524
6200
R4553
10K
R4505
6200
R4506
6200
R4557
10K
R4510
6200
R4512
6200

DMR-EH75VP
VHS Audio Section
(Main P.C.B.(2/4))
Schematic Diagram(A)

5 6 7 8 9 10

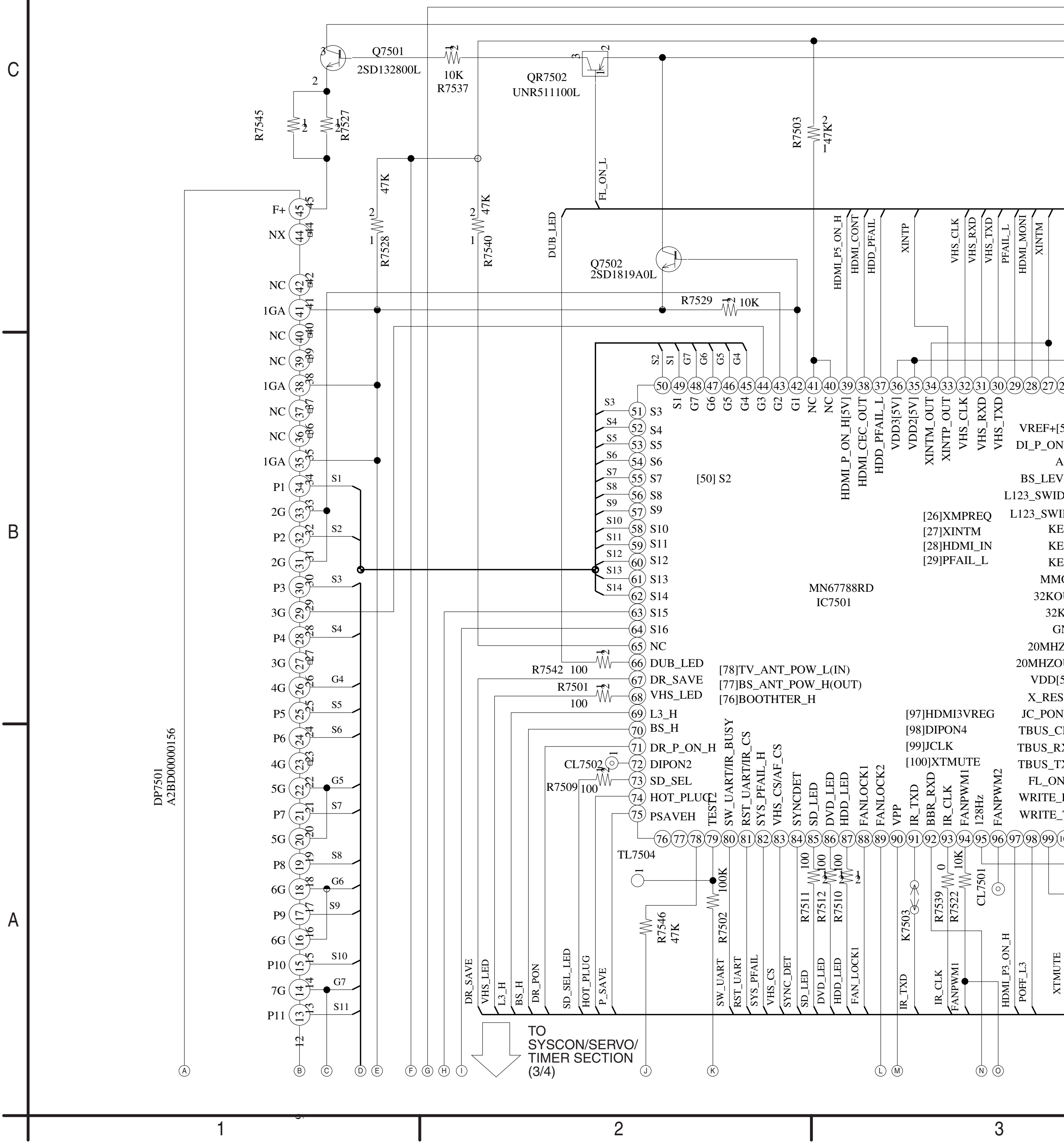
13.12. Syscon/Servo/Timer (1/4) Section (Main P.C.B.(3/4)) Schematic Diagram (S)

LOCATION MAP

1/4	2/4
3/4	4/4

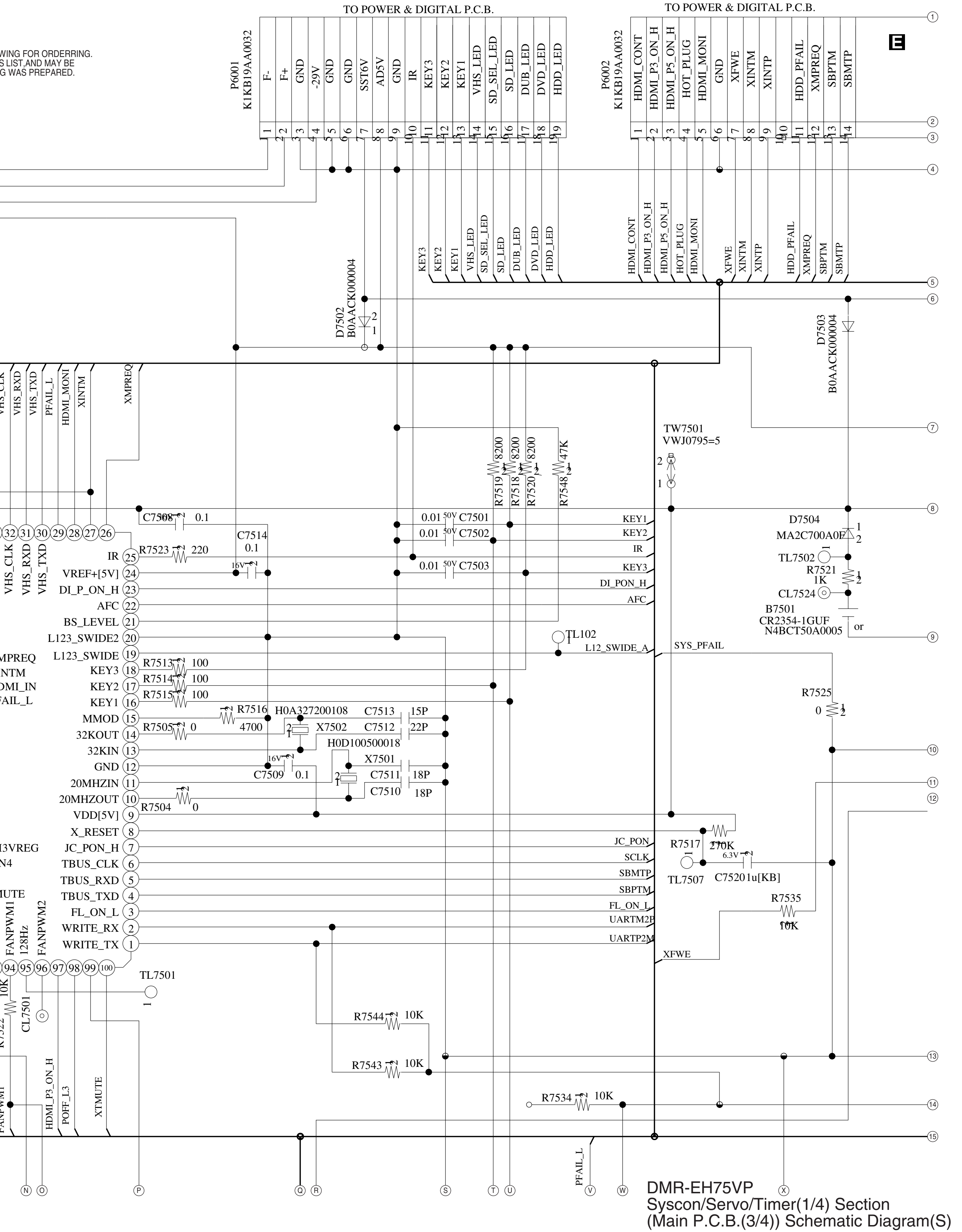
V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.


C
B
A
1
2
3
Q7501
2SD132800L
10K
R7537
QR7502
UNR511100L
R7545
R7527
R7503
47K
R7528
47K
R7540
47K
FL_ON_L
DUB_LED
Q7502
2SD1819A0L
R7529
10K
DP7501
A2BD00000156
F+
NX
NC
1GA
NC
NC
1GA
NC
NC
1GA
P1
2G
P2
2G
P3
3G
P4
3G
4G
P5
P6
4G
5G
P7
5G
P8
6G
P9
6G
P10
7G
P11
S1
S2
S3
S4
G4
S5
S6
G5
S7
S8
G6
S9
S10
G7
S11
HDMI_P5_ON_H
HDMI_CONT
HDD_PFAIL
XINTP
VHS_CLK
VHS_RXD
VHS_TXD
PFAIL_L
HDMI_MONI
XINTM
S1
G7
G6
G5
G4
G3
G2
G1
NC
NC
HDMI_P_ON_H[5V]
HDMI_CEC_OUT
HDD_PFAIL_L
VDD3[5V]
VDD2[5V]
XINTM_OUT
XINTP_OUT
VHS_CLK
VHS_RXD
VHS_TXD
VREF+[5
DI_P_ON
BS_LEV
L123_SWID
L123_SWI
KE
KE
KE
MMC
32KOU
32K
GN
20MHZ
20MHZOU
VDD[5
X_RES
JC_PON
TBUS_CL
TBUS_RX
TBUS_TX
FL_ON
WRITE_
WRITE_
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
NC
DUB_LED
DR_SAVE
VHS_LED
L3_H
BS_H
DR_P_ON_H
DIPON2
SD_SEL
HOT_PLUG
PSAVEH
[50] S2
[26]XMPREQ
[27]XINTM
[28]HDMI_IN
[29]PFAIL_L
MN67788RD
IC7501
[78]TV_ANT_POW_L(IN)
[77]BS_ANT_POW_H(OUT)
[76]BOOTHTER_H
[97]HDMI3VREG
[98]DIPON4
[99]JCLK
[100]XTMUTE
R7542 100
R7501
100
CL7502
R7509 100
TEST2
SW_UART/IR_BUSY
RST_UART/IR_CS
SYS_PFAIL_H
VHS_CS/AF_CS
SYNCDET
SD_LED
DVD_LED
HDD_LED
FANLOCK1
FANLOCK2
VPP
IR_TXD
BBR_RXD
IR_CLK
FANPWM1
128Hz
FANPWM2
TL7504
R7546
47K
100K
R7502
R7511
R7512
R7510
100
100
100
K7503
0
10K
R7539
R7522
CL7501
DR_SAVE
VHS_LED
L3_H
BS_H
DR_PON
SD_SEL_LED
HOT_PLUG
P_SAVE
SW_UART
RST_UART
SYS_PFAIL
VHS_CS
SYNC_DET
SD_LED
DVD_LED
HDD_LED
FAN_LOCK1
IR_TXD
IR_CLK
FANPWM1
HDMI_P3_ON_H
POFF_L3
XTMUTE
TO
SYSCON/SERVO/
TIMER SECTION
(3/4)
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

m (S)

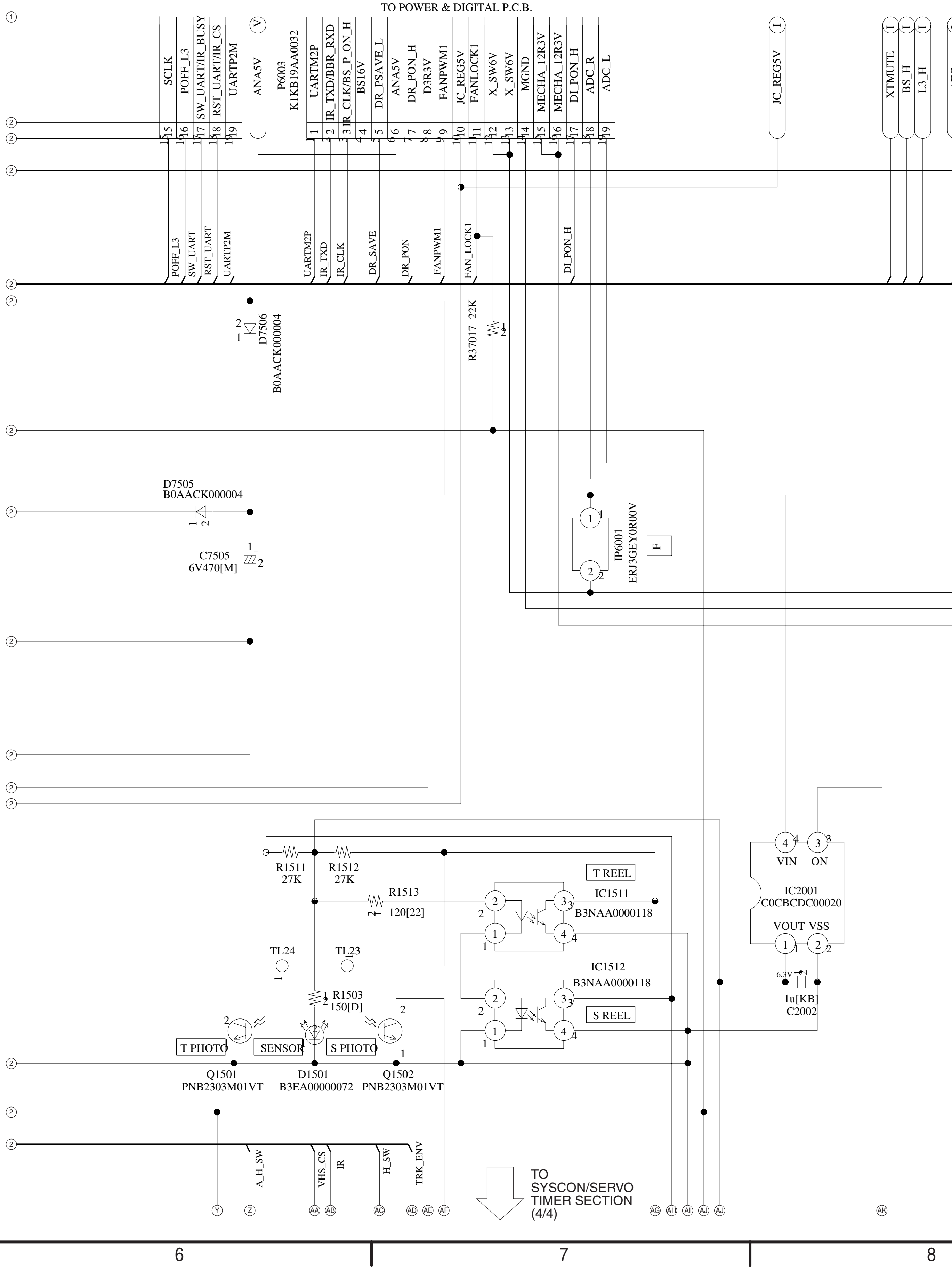
WING FOR ORDERRING.
S LIST,AND MAY BE
G WAS PREPARED.



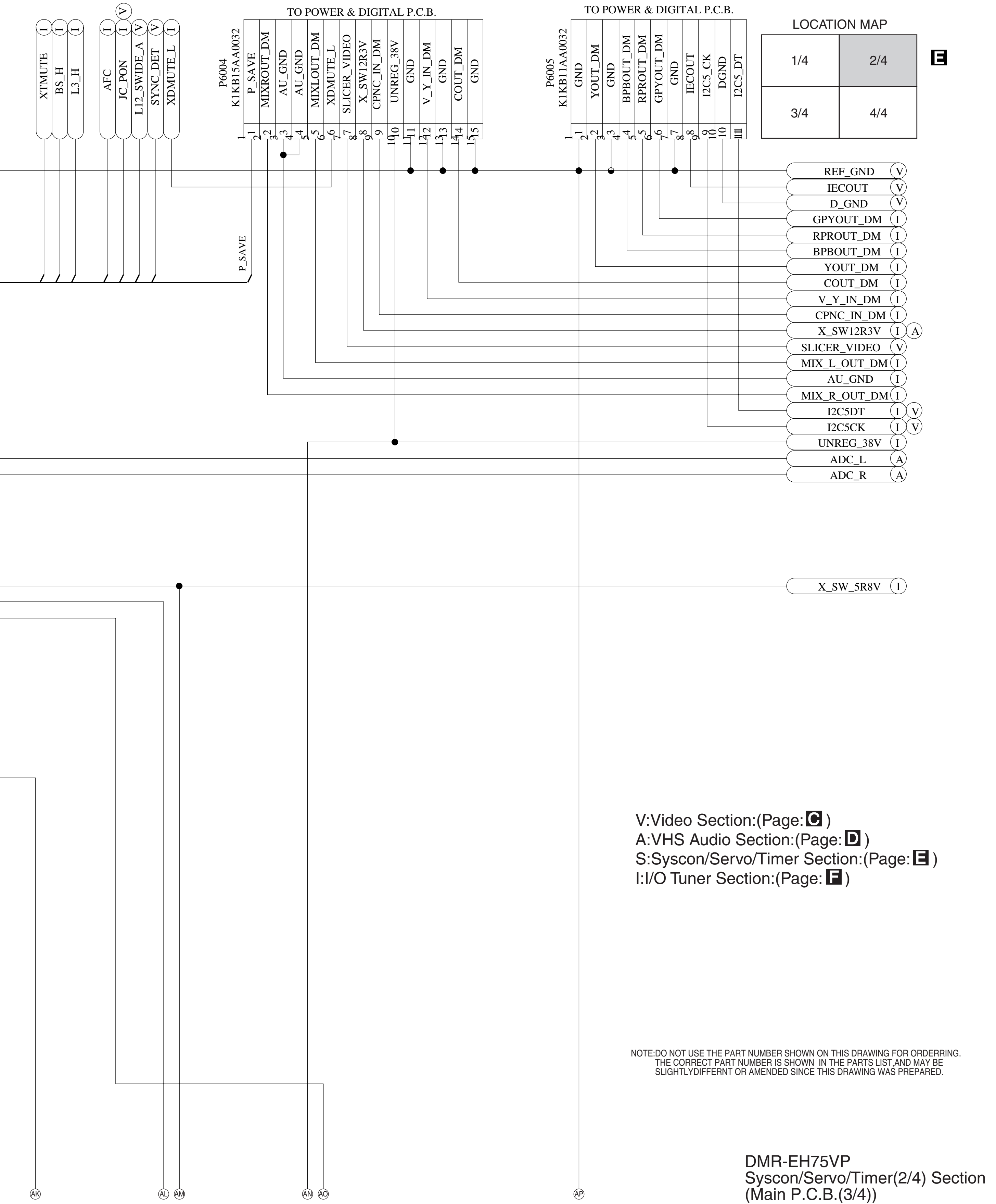
TO POWER & DIGITAL P.C.B.
P6001
K1KB19AA0032
F-
F+
GND
-29V
GND
GND
SST6V
AD5V
GND
IR
KEY3
KEY2
KEY1
VHS_LED
SD_SEL_LED
SD_LED
DUB_LED
DVD_LED
HDD_LED
TO POWER & DIGITAL P.C.B.
P6002
K1KB19AA0032
HDMI_CONT
HDMI_P3_ON_H
HDMI_P5_ON_H
HOT_PLUG
HDMI_MONI
GND
XFWE
XINTM
XINTP
HDD_PFAIL
XMPREQ
SBPTM
SBMTP
E
D7502
B0AACK000004
D7503
B0AACK000004
TW7501
VWJ0795=5
R7519 8200
R7518 8200
R7520 8200
R7548 47K
C7508 0.1
C7514 0.1
R7523 220
C7501 0.01 50V
C7502 0.01 50V
C7503 0.01 50V
D7504
MA2C700A0F
TL7502
R7521 1K
CL7524
B7501
CR2354-1GUF
or
N4BCT50A0005
TL102
L12_SWIDE_A
SYS_PFAIL
R7525 0
IR 25
VREF+[5V] 24
DI_P_ON_H 23
AFC 22
BS_LEVEL 21
L123_SWIDE2 20
L123_SWIDE 19
KEY3 18
KEY2 17
KEY1 16
MMOD 15
32KOUT 14
32KIN 13
GND 12
20MHZIN 11
20MHZOUT 10
VDD[5V] 9
X_RESET 8
JC_PON_H 7
TBUS_CLK 6
TBUS_RXD 5
TBUS_TXD 4
FL_ON_L 3
WRITE_RX 2
WRITE_TX 1
VHS_CLK
VHS_RXD
VHS_TXD
PFAIL_L
HDMI_MONI
XINTM
XMPREQ
R7513 100
R7514 100
R7515 100
R7516 4700
H0A327200108
X7502
C7513 15P
C7512 22P
R7505 0
H0D100500018
X7501
C7509 0.1 16V
C7511 18P
C7510 18P
R7504 0
R7517 270K
TL7507
C7520 1u[KB] 6.3V
R7535 10K
JC_PON
SCLK
SBMTP
SBPTM
FL_ON_L
UARTM2P
UARTP2M
XFWE
DI_PON_H
AFC
TL7501
CL7501
R7522 10K
FANPWM1
128Hz
FANPWM2
HDMI_P3_ON_H
POFF_L3
XTMUTE
R7544 10K
R7543 10K
R7534 10K
PFAIL_L
MPREQ
NTM
DMI_IN
FAIL_L
I3VREG
N4
IUTE

DMR-EH75VP
Syscon/Servo/Timer(1/4) Section
(Main P.C.B.(3/4)) Schematic Diagram(S)

13.13. Syscon/Servo/Timer (2/4) Section (Main P.C.B.(3/4)) Schematic Diagram (S)


TO POWER & DIGITAL P.C.B.
SCLK
POFF_L3
SW_UART/IR_BUSY
RST_UART/IR_CS
UARTP2M
ANA5V
P6003
K1KB19AA0032
UARTM2P
IR_TXD/BBR_RXD
IR_CLK/BS_P_ON_H
BS16V
DR_PSAVE_L
ANA5V
DR_PON_H
D3R3V
FANPWM1
JC_REG5V
FANLOCK1
X_SW6V
X_SW6V
MGND
MECHA_12R3V
MECHA_12R3V
DI_PON_H
ADC_R
ADC_L
JC_REG5V
XTMUTE
BS_H
L3_H
POFF_L3
SW_UART
RST_UART
UARTP2M
UARTM2P
IR_TXD
IR_CLK
DR_SAVE
DR_PON
FANPWM1
FAN_LOCK1
DI_PON_H
D7506
B0AACK000004
R37017 22K
D7505
B0AACK000004
C7505
6V470[M]
IP6001
ERJ3GEY0R00V
F
R1511
27K
R1512
27K
R1513
120[22]
T REEL
IC1511
B3NAA0000118
IC1512
B3NAA0000118
S REEL
TL24
TL23
R1503
150[D]
T PHOTO
SENSOR
S PHOTO
Q1501
PNB2303M01VT
D1501
B3EA00000072
Q1502
PNB2303M01VT
IC2001
C0CBCDC00020
VIN
ON
VOUT VSS
6.3V
1u[KB]
C2002
A_H_SW
VHS_CS
IR
H_SW
TRK_ENV
TO
SYSCON/SERVO
TIMER SECTION
(4/4)
Y
Z
AA
AB
AC
AD
AE
AF
AG
AH
AI
AJ
AJ
AK
6
7
8

gram (S)



XTMUTE I
BS_H I
L3_H I
AFC I
JC_PON I V
L12_SWIDE_A V
SYNC_DET V
XDMUTE_L I
TO POWER & DIGITAL P.C.B.
P6004
K1KB15AA0032
1 P_SAVE
2 MIXROUT_DM
3 AU_GND
4 AU_GND
5 MIXLOUT_DM
6 XDMUTE_L
7 SLICER_VIDEO
8 X_SW12R3V
9 CPNC_IN_DM
10 UNREG_38V
11 GND
12 V_Y_IN_DM
13 GND
14 COUT_DM
15 GND
TO POWER & DIGITAL P.C.B.
P6005
K1KB11AA0032
1 GND
2 YOUT_DM
3 GND
4 BPBOUT_DM
5 RPROUT_DM
6 GPYOUT_DM
7 GND
8 IECOUT
9 I2C5_CK
10 DGND
11 I2C5_DT
LOCATION MAP
1/4
2/4
3/4
4/4
E
P_SAVE
REF_GND V
IECOUT V
D_GND V
GPYOUT_DM I
RPROUT_DM I
BPBOUT_DM I
YOUT_DM I
COUT_DM I
V_Y_IN_DM I
CPNC_IN_DM I
X_SW12R3V I A
SLICER_VIDEO V
MIX_L_OUT_DM I
AU_GND I
MIX_R_OUT_DM I
I2C5DT I V
I2C5CK I V
UNREG_38V I
ADC_L A
ADC_R A
X_SW_5R8V I
AK
AL
AM
AN
AO
AP

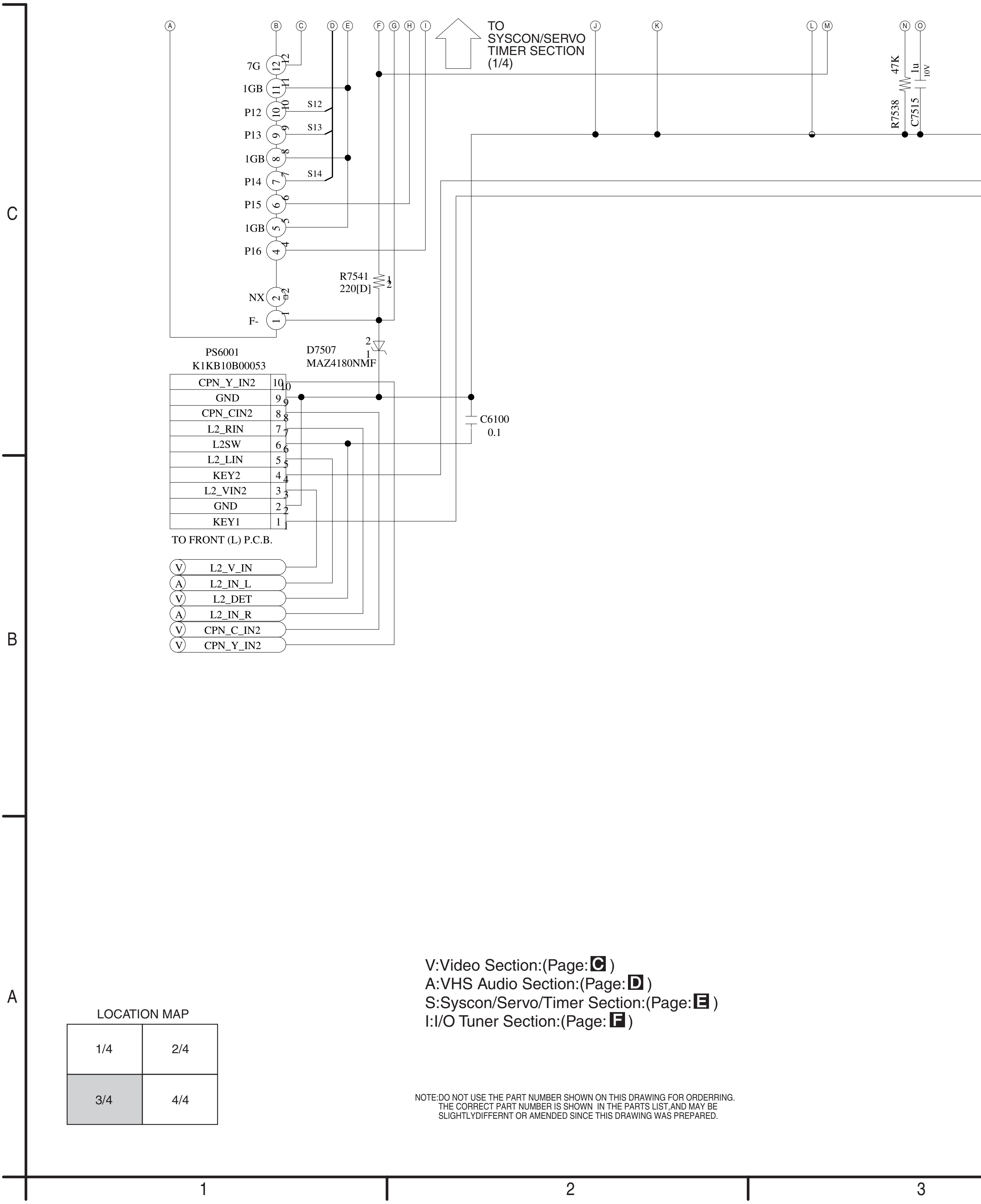
V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH75VP
Syscon/Servo/Timer(2/4) Section
(Main P.C.B.(3/4))
Schematic Diagram(S)

8 9 10

13.14. Syscon/Servo/Timer (3/4) Section (Main P.C.B.(3/4)) Schematic Diagram (S)


A
B
C
D
E
F
G
H
I
TO
SYSCON/SERVO
TIMER SECTION
(1/4)
J
K
L
M
N
O
7G
1GB
P12
P13
1GB
P14
P15
1GB
P16
NX
F-
12
11
10
9
8
7
6
5
4
2
1
S12
S13
S14
R7541
220[D]
D7507
MAZ4180NMF
47K
R7538
1u
10V
C7515
C6100
0.1
PS6001
K1KB10B00053
CPN_Y_IN2
GND
CPN_CIN2
L2_RIN
L2SW
L2_LIN
KEY2
L2_VIN2
GND
KEY1
TO FRONT (L) P.C.B.
V L2_V_IN
A L2_IN_L
V L2_DET
A L2_IN_R
V CPN_C_IN2
V CPN_Y_IN2
C
B
A
1
2
3

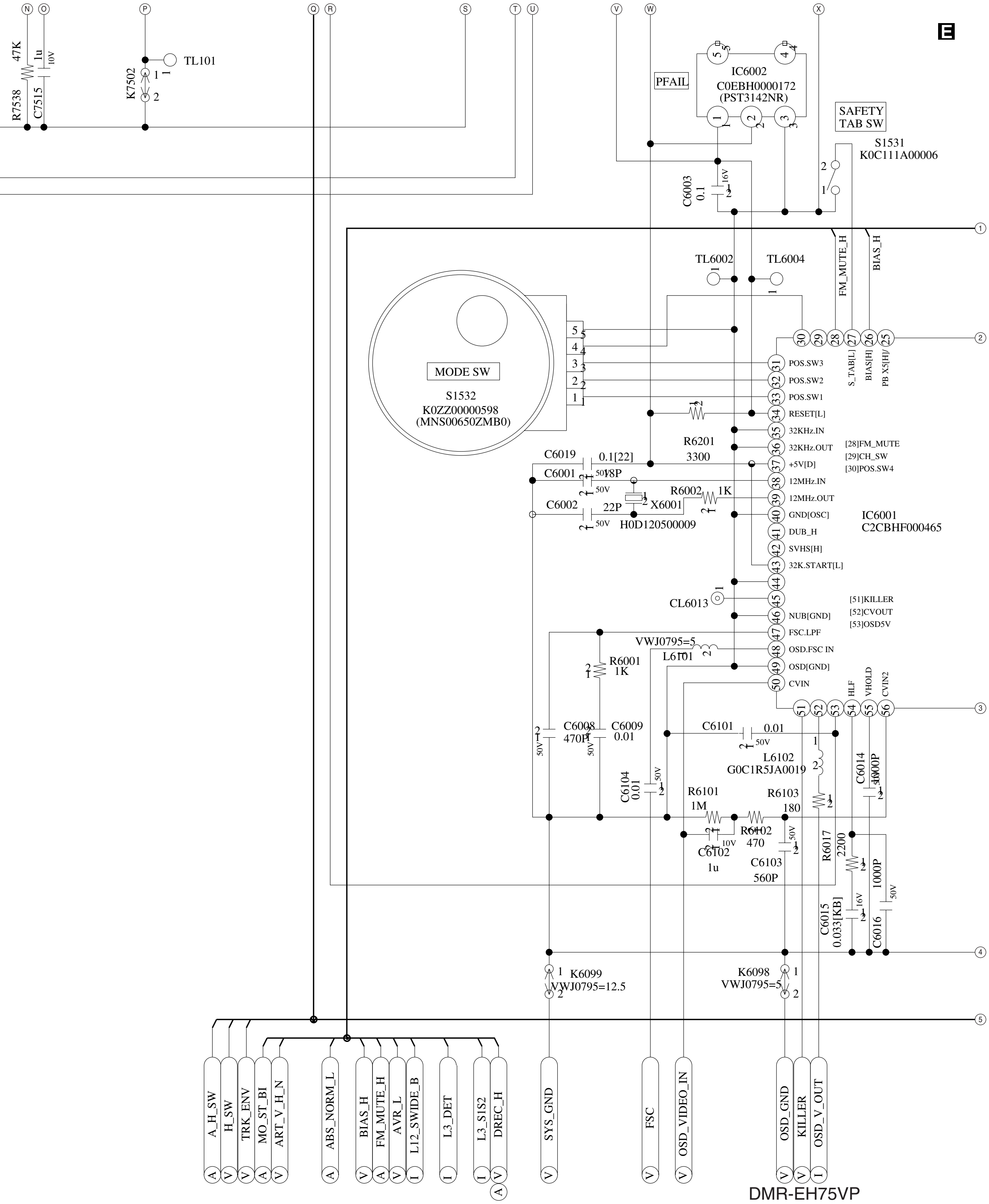
V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

LOCATION MAP

1/4	2/4
3/4	4/4

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

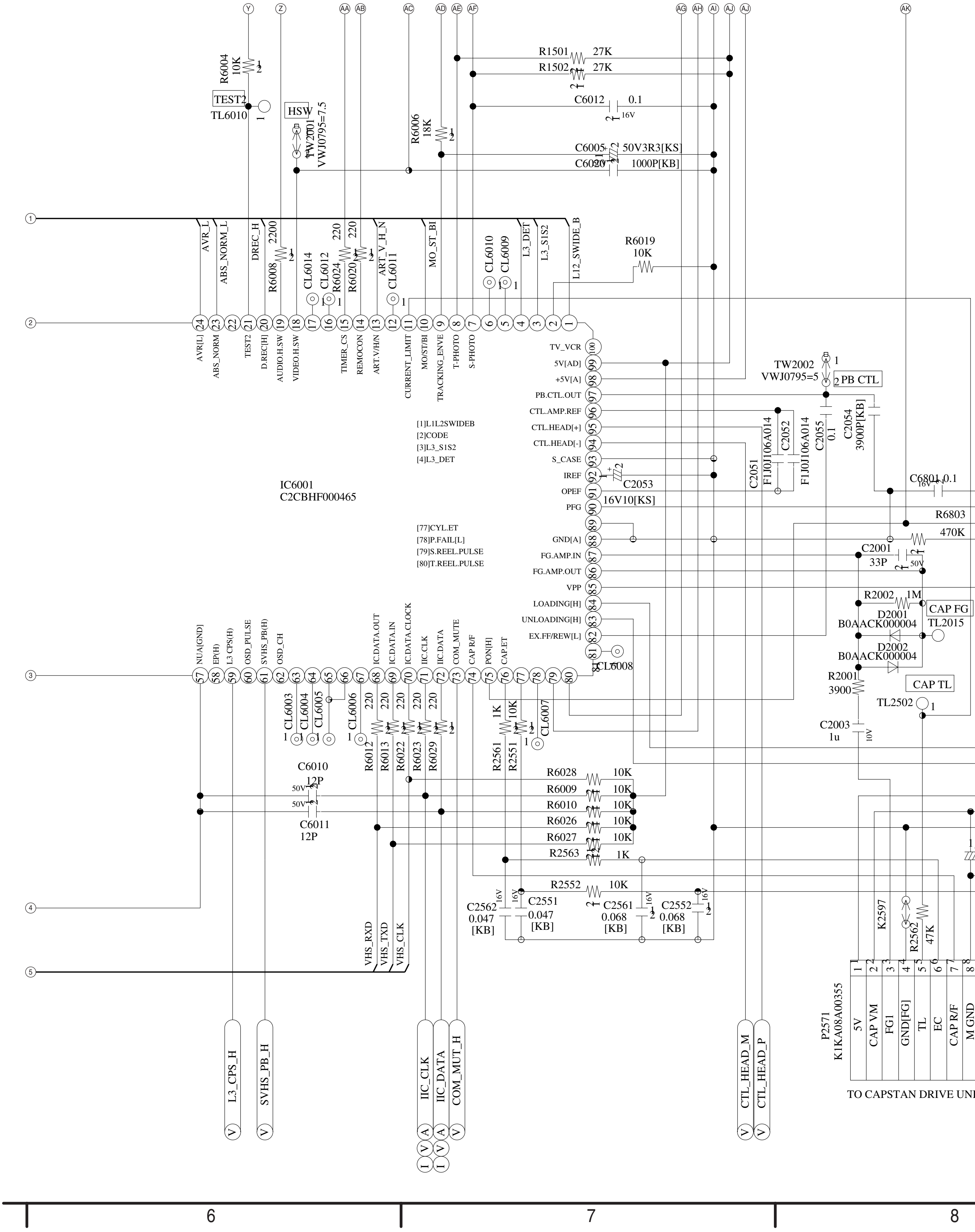
m (S)


N
O
P
Q
R
S
T
U
V
W
X
E
47K
R7538
1u
10V
C7515
K7502
TL101
IC6002
C0EBH0000172
(PST3142NR)
PFAIL
SAFETY
TAB SW
S1531
K0C111A00006
C6003
0.1
16V
TL6002
TL6004
FM_MUTE_H
BIAS_H
MODE SW
S1532
K0ZZ00000598
(MNS00650ZMB0)
POS.SW3
POS.SW2
POS.SW1
RESET[L]
32KHz.IN
32KHz.OUT
+5V[D]
12MHz.IN
12MHz.OUT
GND[OSC]
DUB_H
SVHS[H]
32K.START[L]
NUB[GND]
FSC.LPF
OSD.FSC IN
OSD[GND]
CVIN
S_TAB[L]
BIAS[H]
PB X5[H]/
[28]FM_MUTE
[29]CH_SW
[30]POS.SW4
[51]KILLER
[52]CVOUT
[53]OSD5V
HLF
VHOLD
CVIN2
IC6001
C2CBHF000465
R6201
3300
C6019
0.1[22]
C6001
18P
50V
R6002
1K
X6001
C6002
22P
H0D120500009
CL6013
VWJ0795=5
L6101
R6001
1K
C6008
470P
C6009
0.01
C6101
0.01
L6102
G0C1R5JA0019
C6104
0.01
R6101
1M
R6103
180
R6102
470
C6102
1u
C6103
560P
C6014
1000P
R6017
2200
C6015
0.033[KB]
1000P
C6016
K6099
VWJ0795=12.5
K6098
VWJ0795=5
A_H_SW
H_SW
TRK_ENV
MO_ST_BI
ART_V_H_N
ABS_NORM_L
BIAS_H
FM_MUTE_H
AVR_L
L12_SWIDE_B
L3_DET
L3_S1S2
DREC_H
SYS_GND
FSC
OSD_VIDEO_IN
OSD_GND
KILLER
OSD_V_OUT
① ② ③ ④ ⑤

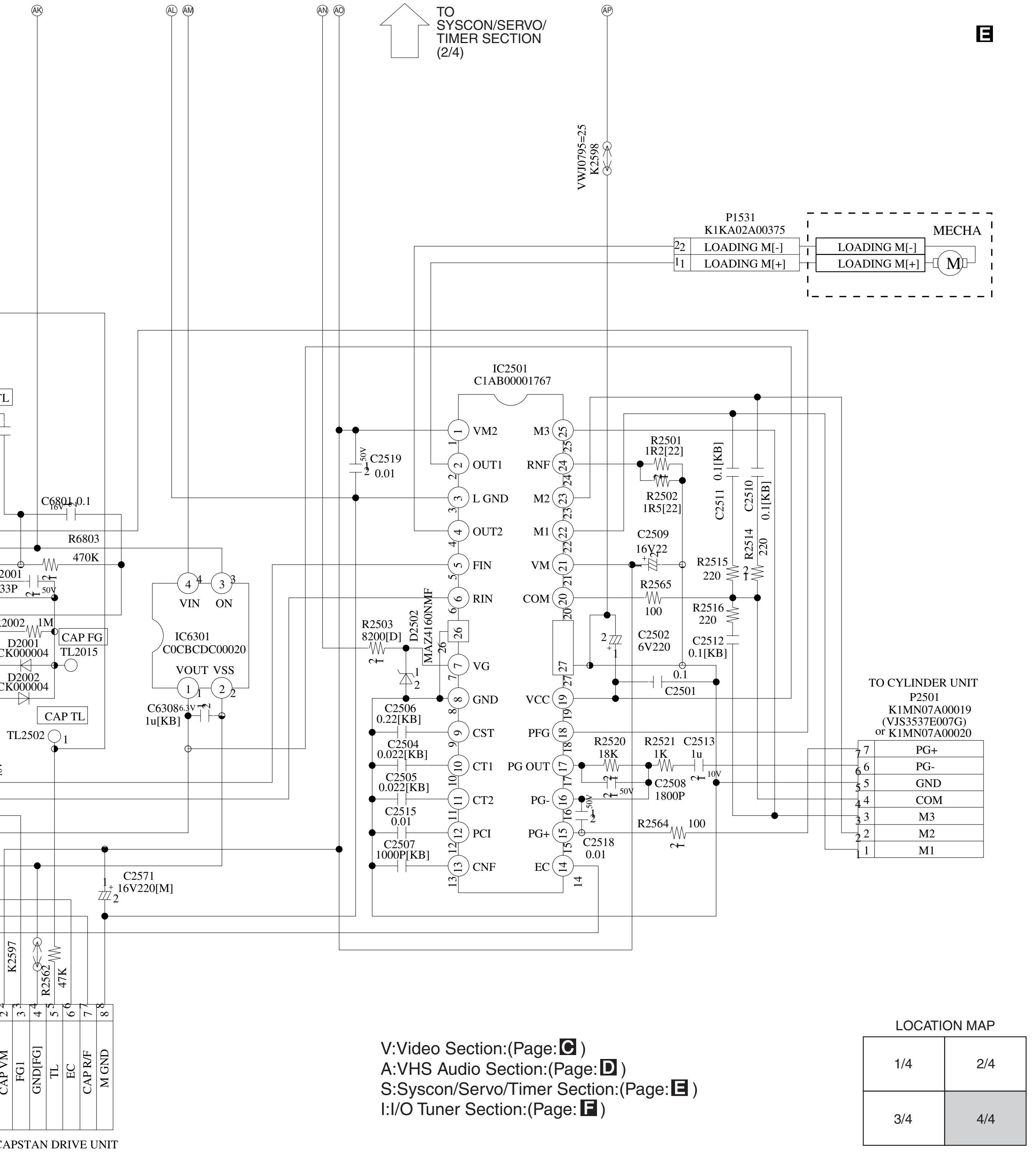
DMR-EH75VP
Syscon/Servo/Timer(3/4) Section
(Main P.C.B.(3/4))
Schematic Diagram(S)

3 4 5

13.15. Syscon/Servo/Timer (4/4) Section (Main P.C.B.(3/4)) Schematic Diagram (S)


Y
Z
AA
AB
AC
AD
AE
AF
AG
AH
AI
AJ
AJ
AK
R6004
10K
TEST2
TL6010
HSW
TW2001
VWJ0795=7.5
R6006
18K
R1501 27K
R1502 27K
C6012 0.1
16V
C6005 50V3R3[KS]
C6020 1000P[KB]
AVR_L
ABS_NORM_L
DREC_H
R6008 2200
CL6014
CL6012
R6024 220
R6020 220
ART_V_H_N
CL6011
MO_ST_BI
CL6010
CL6009
L3_DET
L3_S1S2
L12_SWIDE_B
R6019
10K
AVR[L]
ABS_NORM
TEST2
D.REC[H]
AUDIO.H.SW
VIDEO.H.SW
TIMER_CS
REMOCON
ART.V/H/N
CURRENT_LIMIT
MO/ST/BI
TRACKING_ENVE
T-PHOTO
S-PHOTO
TV_VCR
5V[AD]
+5V[A]
PB.CTL.OUT
CTL.AMP.REF
CTL.HEAD[+]
CTL.HEAD[-]
S_CASE
IREF
OPEF
PFG
GND[A]
FG.AMP.IN
FG.AMP.OUT
VPP
LOADING[H]
UNLOADING[H]
EX.FF/REW[L]
[1]L1L2SWIDEB
[2]CODE
[3]L3_S1S2
[4]L3_DET
IC6001
C2CBHF000465
[77]CYL.ET
[78]P.FAIL[L]
[79]S.REEL.PULSE
[80]T.REEL.PULSE
TW2002
VWJ0795=5
PB CTL
C2051
F1J0J106A014
C2052
F1J0J106A014
C2055
0.1
C2054
3900P[KB]
C2053
16V10[KS]
C6801 0.1
16V
R6803
470K
C2001
33P
50V
R2002 1M
CAP FG
D2001
B0AACK000004
TL2015
D2002
B0AACK000004
R2001
3900
CAP TL
TL2502
C2003
1u
10V
CL6008
NUA[GND]
EP(H)
L3 CPS(H)
OSD_PULSE
SVHS_PB(H)
OSD_CH
IC.DATA.OUT
IC.DATA.IN
IC.DATA.CLOCK
IIC.CLK
IIC.DATA
COM_MUTE
CAP R/F
PON[H]
CAP.ET
CL6003
CL6004
CL6005
CL6006
R6012 220
R6013 220
R6022 220
R6023 220
R6029 220
R2561 1K
R2551 10K
CL6007
C6010
12P
50V
C6011
12P
R6028 10K
R6009 10K
R6010 10K
R6026 10K
R6027 10K
R2563 1K
R2552 10K
C2562
0.047
[KB]
C2551
0.047
[KB]
C2561
0.068
[KB]
C2552
0.068
[KB]
16V
K2597
R2562
47K
VHS_RXD
VHS_TXD
VHS_CLK
P2571
K1KA08A00355
5V
CAP VM
FG1
GND[FG]
TL
EC
CAP R/F
M GND
TO CAPSTAN DRIVE UNI
L3_CPS_H
SVHS_PB_H
IIC_CLK
IIC_DATA
COM_MUT_H
CTL_HEAD_M
CTL_HEAD_P
V
A
I
1
2
3
4
5
6
7
8

gram (S)



AK
AL
AM
AN
AO
AP
TO SYSCON/SERVO/ TIMER SECTION (2/4)
E
VWJ0795=25
K2598
P1531
K1KA02A00375
2 LOADING M[-]
1 LOADING M[+]
MECHA
LOADING M[-]
LOADING M[+]
M
IC2501
C1AB00001767
1 VM2
2 OUT1
3 L GND
4 OUT2
5 FIN
6 RIN
7 VG
8 GND
9 CST
10 CT1
11 CT2
12 PCI
13 CNF
14 EC
15 PG+
16 PG-
17 PG OUT
18 PFG
19 VCC
20 COM
21 VM
22 M1
23 M2
24 RNF
25 M3
26
27
C2519 50V 0.01
R2501 1R2[22]
R2502 1R5[22]
C2511 0.1[KB]
C2510 0.1[KB]
C2509 16V22
R2515 220
R2514 220
R2565 100
R2516 220
C2502 6V220
C2512 0.1[KB]
C2501 0.1
R2503 8200[D]
D2502 MAZ4160NMF
C2506 0.22[KB]
C2504 0.022[KB]
C2505 0.022[KB]
C2515 0.01
C2507 1000P[KB]
R2520 18K
R2521 1K
C2513 1u 10V
C2508 1800P 50V
C2518 50V 0.01
R2564 100
TO CYLINDER UNIT
P2501
K1MN07A00019 (VJS3537E007G) or K1MN07A00020
7 PG+
6 PG-
5 GND
4 COM
3 M3
2 M2
1 M1
C6801 16V 0.1
R6803 470K
2001 33P 50V
2002 1M
D2001 CK000004
D2002 CK000004
CAP FG
TL2015
CAP TL
TL2502
IC6301
C0CBCDC00020
4 VIN
3 ON
1 VOUT
2 VSS
C6308 6.3V 1u[KB]
C2571 16V220[M]
K2597
R2562 47K
2 CAP VM
3 FG1
4 GND[FG]
5 TL
6 EC
7 CAP R/F
8 M GND
CAPSTAN DRIVE UNIT

V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

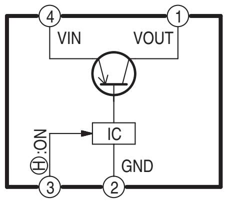
LOCATION MAP

1/4	2/4
3/4	4/4

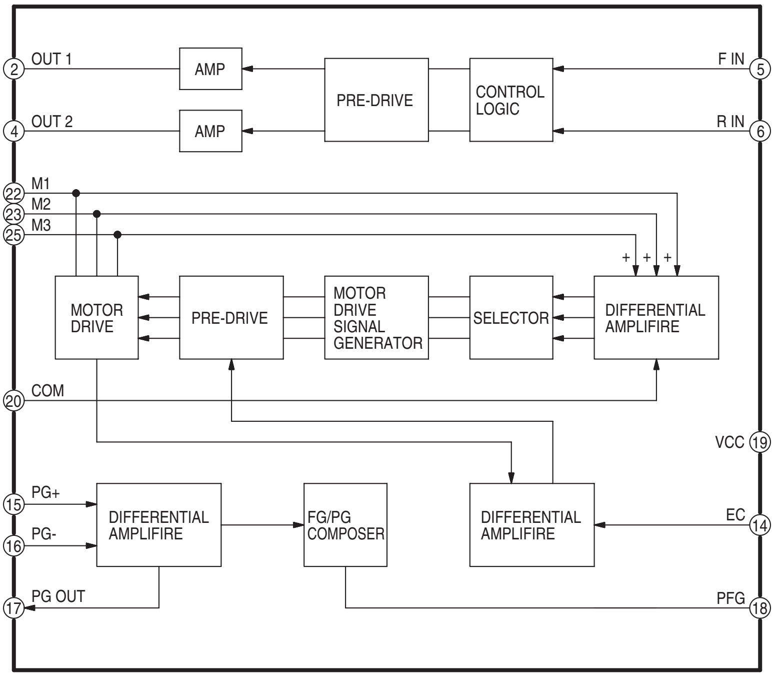
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH75VP
Syscon/Servo/Timer(4/4) Section
(Main P.C.B.(3/4))
Schematic Diagram(S)

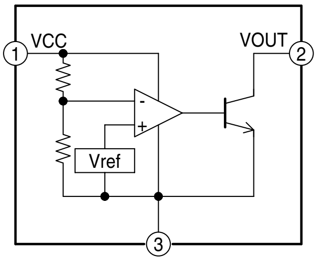
IC2001,6301
+5V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM


4
1
VIN
VOUT
IC
Ⓗ:ON
GND
3
2

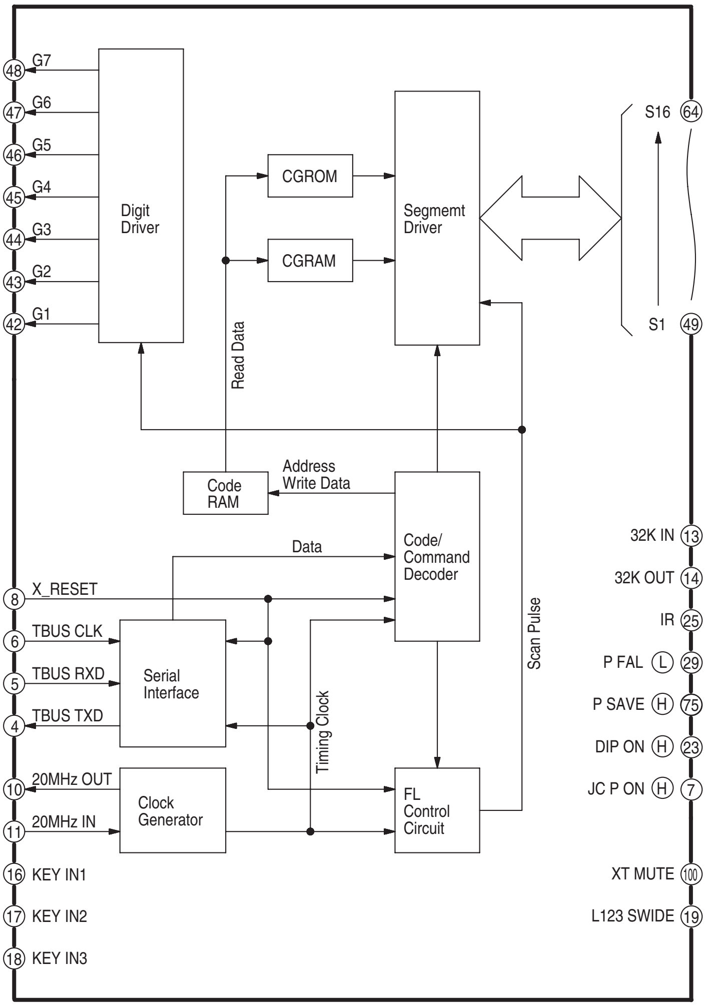
IC2501
LOADING/CYLINDER MOTOR DRIVE
IC-DETAIL BLOCK DIAGRAM


② OUT 1
④ OUT 2
AMP
AMP
PRE-DRIVE
CONTROL LOGIC
F IN ⑤
R IN ⑥
㉒ M1
㉓ M2
㉕ M3
+ + +
MOTOR DRIVE
PRE-DRIVE
MOTOR DRIVE SIGNAL GENERATOR
SELECTOR
DIFFERENTIAL AMPLIFIRE
⑳ COM
VCC ⑲
⑮ PG+
⑯ PG-
DIFFERENTIAL AMPLIFIRE
FG/PG COMPOSER
DIFFERENTIAL AMPLIFIRE
EC ⑭
⑰ PG OUT
PFG ⑱

IC6002
RESET
IC-DETAIL BLOCK DIAGRAM

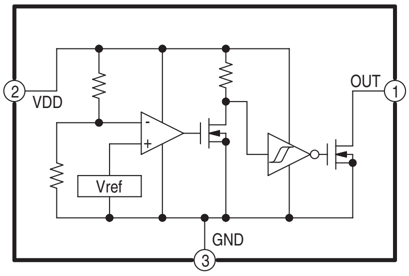

① VCC
VOUT ②
-
+
Vref
③

IC7501
TIMER
IC-DETAIL BLOCK DIAGRAM



48 G7
47 G6
46 G5
45 G4
44 G3
43 G2
42 G1
Digit Driver
CGROM
CGRAM
Segmemt Driver
S16 64
S1 49
Read Data
Code RAM
Address Write Data
Code/ Command Decoder
Data
8 X_RESET
6 TBUS CLK
5 TBUS RXD
4 TBUS TXD
Serial Interface
Timing Clock
Scan Pulse
10 20MHz OUT
11 20MHz IN
Clock Generator
FL Control Circuit
16 KEY IN1
17 KEY IN2
18 KEY IN3
32K IN 13
32K OUT 14
IR 25
P FAL L 29
P SAVE H 75
DIP ON H 23
JC P ON H 7
XT MUTE 100
L123 SWIDE 19

IC7503
RESET
IC-DETAIL BLOCK DIAGRAM



2 VDD
OUT 1
Vref
GND 3
-
+

IC2001 Detail Block Diagram
IC2501 Detail Block Diagram
IC6002 Detail Block Diagram
IC6301 Detail Block Diagram
IC7501 Detail Block Diagram
IC7503 Detail Block Diagram
DMR-EH75VP IC-Detail Block Diagram

13.16. I/O Tuner Section (1/4) (Main P.C.B.(4/4)) Schematic Diagram (I)

LOCATION MAP

1/4	2/4
3/4	4/4

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
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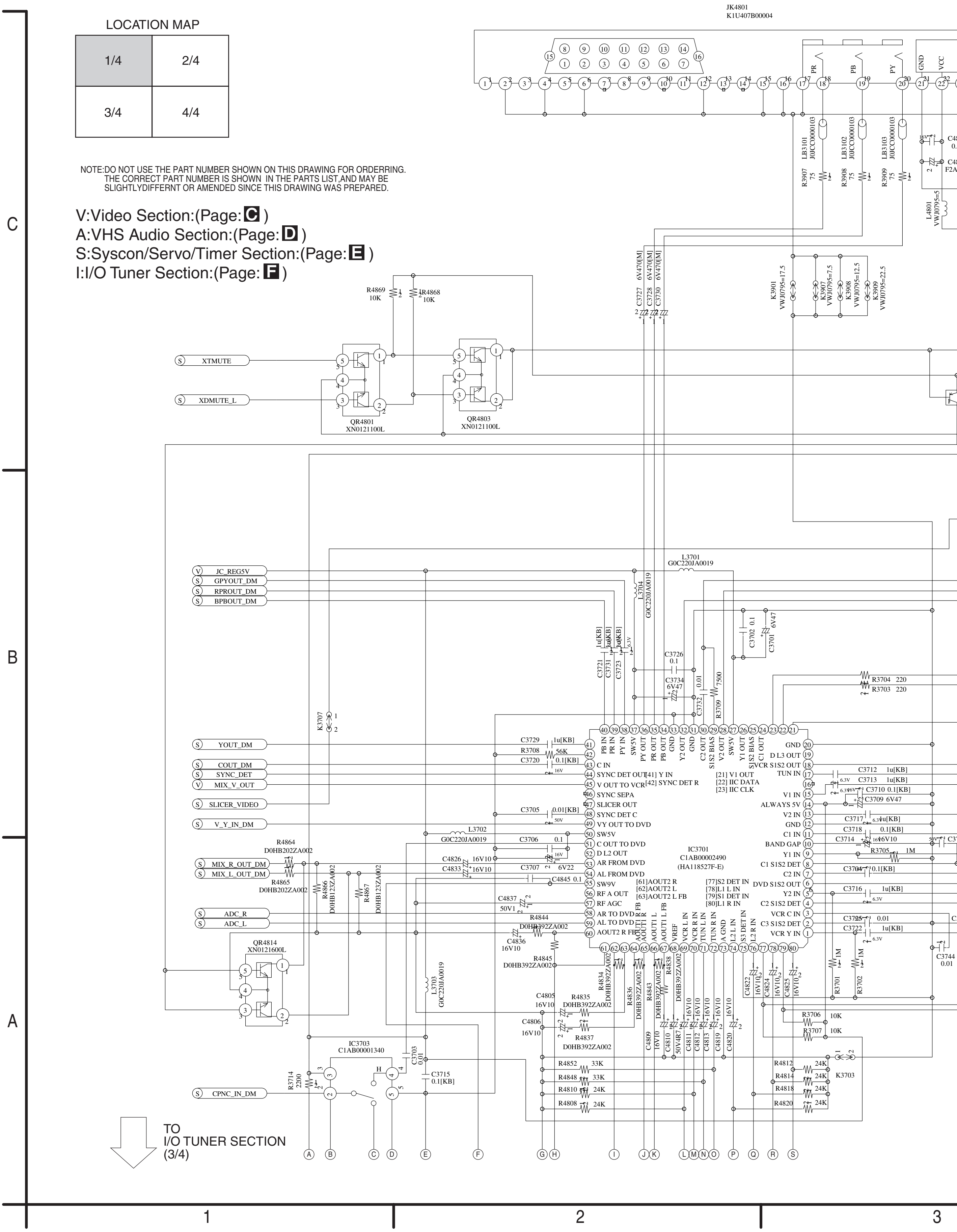
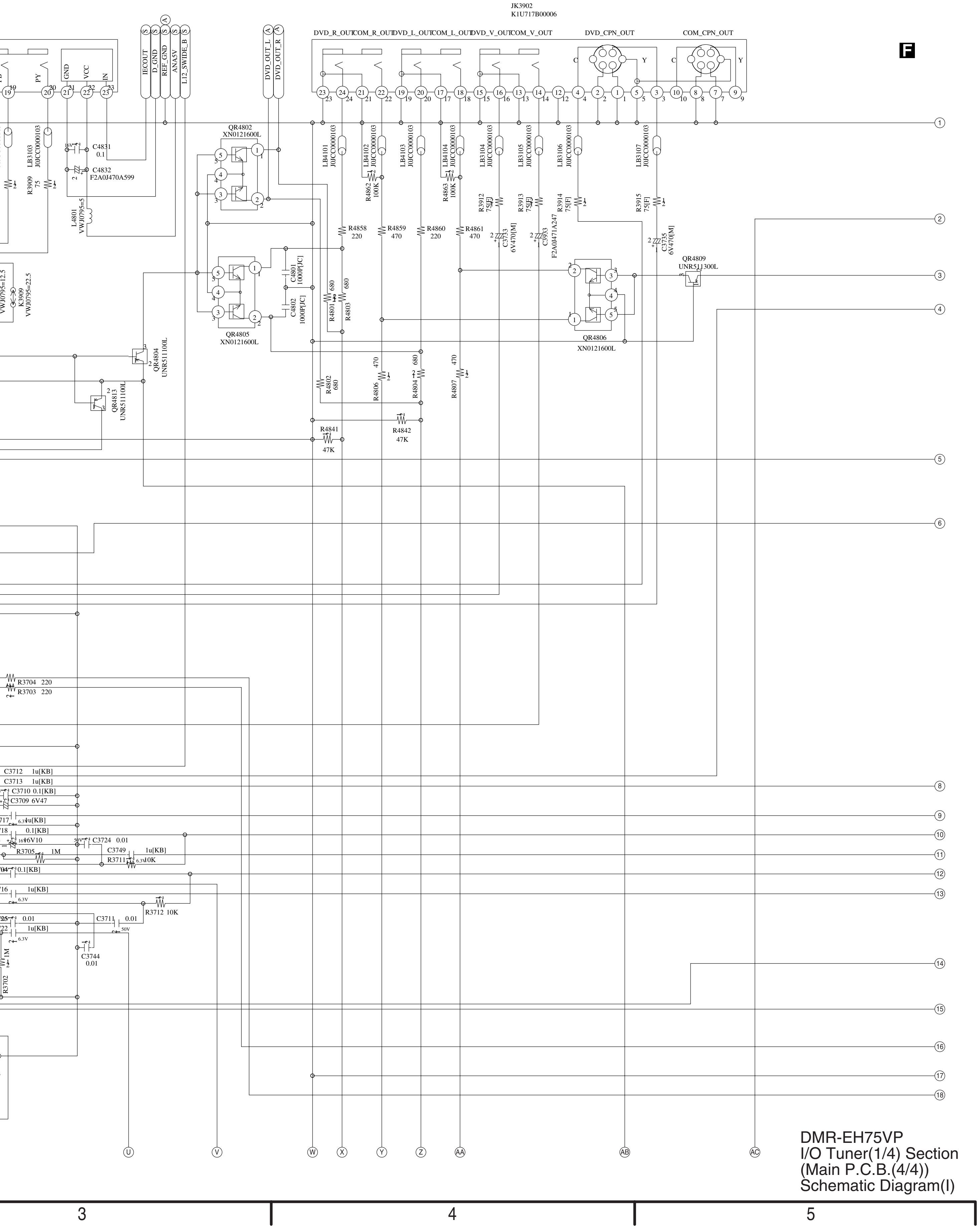
V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

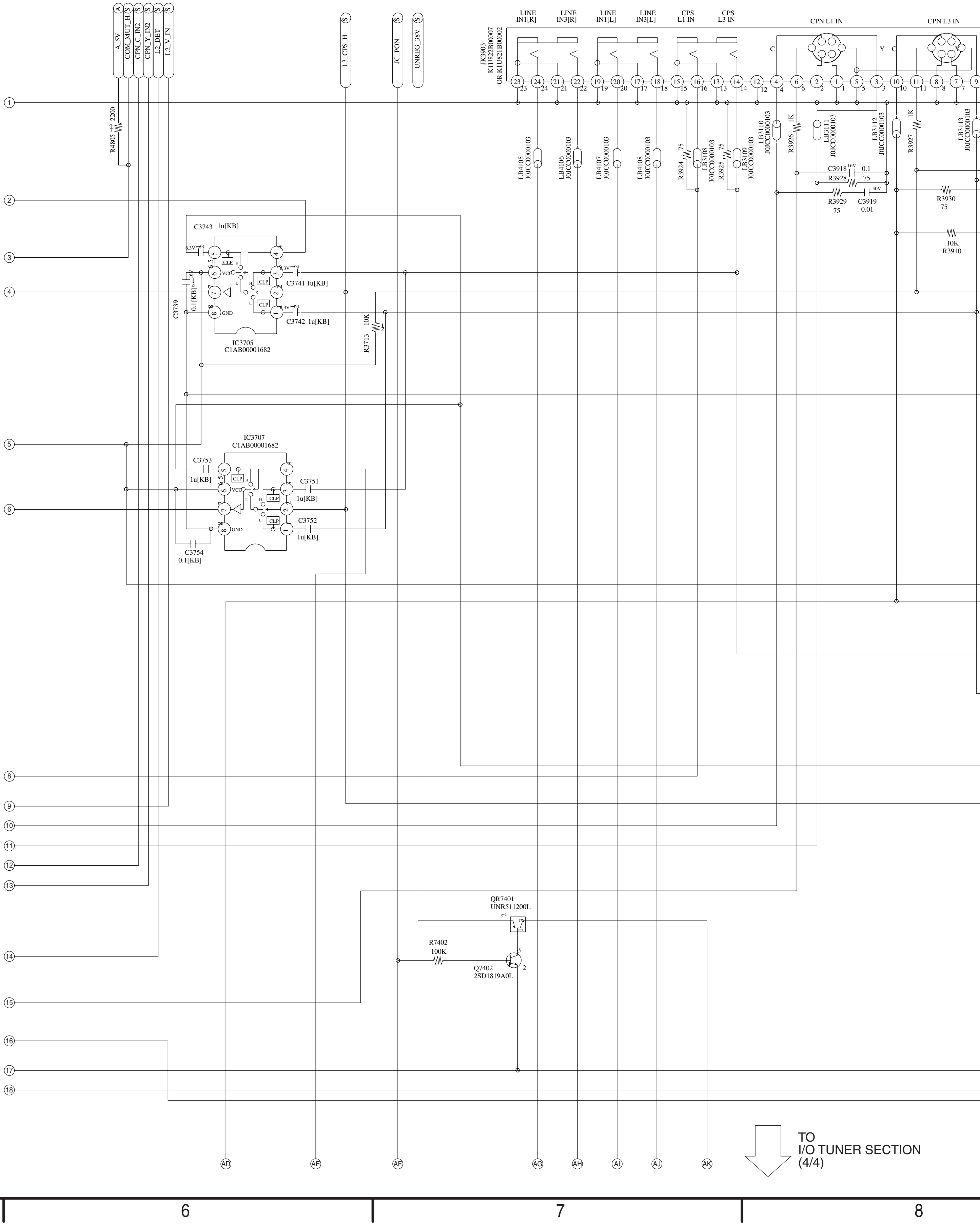


C
B
A
1
2
3
JK4801
K1U407B00004
PR
PB
PY
GND
VCC
LB3101 J0JCC0000103
LB3102 J0JCC0000103
LB3103 J0JCC0000103
R3907 75
R3908 75
R3909 75
L4801 VWJ0795=5
K3901 VWJ0795=17.5
K3907 VWJ0795=7.5
K3908 VWJ0795=12.5
K3909 VWJ0795=22.5
C3727 6V470[M]
C3728 6V470[M]
C3730 6V470[M]
R4869 10K
R4868 10K
XTMUTE
XDMUTE_L
QR4801 XN0121100L
QR4803 XN0121100L
L3701 G0C220JA0019
JC_REG5V
GPYOUT_DM
RPROUT_DM
BPBOUT_DM
L3704 G0C220JA0019
C3721 1u[KB]
C3731 1u[KB]
C3723 1u[KB]
C3726 0.1
C3734 6V47
C3732 0.01
R3709 7500
C3702 0.1
C3701 6V47
R3704 220
R3703 220
K3707
YOUT_DM
COUT_DM
SYNC_DET
MIX_V_OUT
SLICER_VIDEO
V_Y_IN_DM
C3729 1u[KB]
R3708 56K
C3720 0.1[KB]
C3705 0.01[KB]
L3702 G0C220JA0019
C3706 0.1
C4826 16V10
C4833 16V10
C3707 6V22
C4845 0.1
C4837 50V1
R4844 D0HB392ZA002
C4836 16V10
R4845 D0HB392ZA002
R4864 D0HB202ZA002
R4865 D0HB202ZA002
R4866 D0HB123ZA002
R4867 D0HB123ZA002
MIX_R_OUT_DM
MIX_L_OUT_DM
ADC_R
ADC_L
QR4814 XN0121600L
IC3701 C1AB00002490 (HA118527F-E)
PB IN
PR IN
PY IN
SW5V
PY OUT
PR OUT
PB OUT
GND
Y2 OUT
GND
C2 OUT
S1S2 BIAS
V2 OUT
SW5V
Y1 OUT
S1S2 BIAS
C1 OUT
C IN
SYNC DET OUT
V OUT TO VCR
SYNC SEPA
SLICER OUT
SYNC DET C
VY OUT TO DVD
SW5V
C OUT TO DVD
D L2 OUT
AR FROM DVD
AL FROM DVD
SW9V
RF A OUT
RF AGC
AR TO DVD
AL TO DVD
AOUT2 R FB
[41] Y IN
[42] SYNC DET R
[21] V1 OUT
[22] IIC DATA
[23] IIC CLK
[61]AOUT2 R
[62]AOUT2 L
[63]AOUT2 L FB
[77]S2 DET IN
[78]L1 L IN
[79]S1 DET IN
[80]L1 R IN
AOUT1 R FB
AOUT1 R
AOUT1 L
AOUT1 L FB
VREF
VCR L IN
VCR R IN
TUN L IN
TUN R IN
A GND
L2 L IN
S3 DET IN
L2 R IN
GND
D L3 OUT
VCR S1S2 OUT
TUN IN
V1 IN
ALWAYS 5V
V2 IN
GND
C1 IN
BAND GAP
Y1 IN
C1 S1S2 DET
C2 IN
DVD S1S2 OUT
Y2 IN
C2 S1S2 DET
VCR C IN
C3 S1S2 DET
VCR Y IN
C3712 1u[KB]
C3713 1u[KB]
C3710 0.1[KB]
C3709 6V47
C3717 1u[KB]
C3718 0.1[KB]
C3714 16V10
R3705 1M
C3704 0.1[KB]
C3716 1u[KB]
C3725 0.01
C3722 1u[KB]
C3744 0.01
R3701 1M
R3702 1M
C4822 16V10
C4824 16V10
C4825 16V10
R3706 10K
R3707 10K
R4834 D0HB392ZA002
R4836
R4843 D0HB392ZA002
R4838 D0HB392ZA002
C4809 16V10
C4810 50V4R7
C4811 16V10
C4812 16V10
C4813 16V10
C4819 16V10
C4820
C4805 16V10
R4835 D0HB392ZA002
C4806 16V10
R4837 D0HB392ZA002
L3703 G0C220JA0019
IC3703 C1AB00001340
C3703 0.01
C3715 0.1[KB]
R3714 2200
CPNC_IN_DM
R4852 33K
R4848 33K
R4810 24K
R4808 24K
R4812 24K
R4814 24K
R4818 24K
R4820 24K
K3703
TO I/O TUNER SECTION (3/4)
A B C D E F G H I J K L M N O P Q R S


JK3902
K1U717B00006
DVD_R_OUT
COM_R_OUT
DVD_L_OUT
COM_L_OUT
DVD_V_OUT
COM_V_OUT
DVD_CPN_OUT
COM_CPN_OUT
F
IECOUT
D_GND
REF_GND
ANA5V
L12_SWIDE_B
DVD_OUT_L
DVD_OUT_R
PY
GND
VCC
IN
C4831
0.1
C4832
F2A0J470A599
L4801
VWJ0795=5
LB3103
J0JCC0000103
R3909
75
K3909
VWJ0795=22.5
VWJ0795=12.5
QR4802
XN0121600L
QR4805
XN0121600L
C4801
1000P[JC]
C4802
1000P[JC]
R4801 680
R4803 680
R4802 680
QR4804
UNR511100L
QR4813
UNR511100L
LB4101
J0JCC0000103
LB4102
J0JCC0000103
LB4103
J0JCC0000103
LB4104
J0JCC0000103
LB3104
J0JCC0000103
LB3105
J0JCC0000103
LB3106
J0JCC0000103
LB3107
J0JCC0000103
R4862
100K
R4863
100K
R4858
220
R4859
470
R4860
220
R4861
470
R3912
75[F]
R3913
75[F]
R3914
75[F]
R3915
75[F]
C3733
6V470[M]
C3933
F2A0J471A247
C3735
6V470[M]
QR4809
UNR511300L
QR4806
XN0121600L
R4806 470
R4804 680
R4807 470
R4841
47K
R4842
47K
R3704 220
R3703 220
C3712 1u[KB]
C3713 1u[KB]
C3710 0.1[KB]
C3709 6V47
1u[KB]
0.1[KB]
16V10
C3724 0.01
C3749 1u[KB]
R3705 1M
R3711 10K
0.1[KB]
1u[KB]
R3712 10K
0.01
C3711 0.01
1u[KB]
C3744
0.01
R3702
1M
①
②
③
④
⑤
⑥
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
Ⓤ
Ⓥ
Ⓦ
Ⓧ
Ⓨ
Ⓩ
AA
AB
AC
3
4
5

DMR-EH75VP
I/O Tuner(1/4) Section
(Main P.C.B.(4/4))
Schematic Diagram(I)

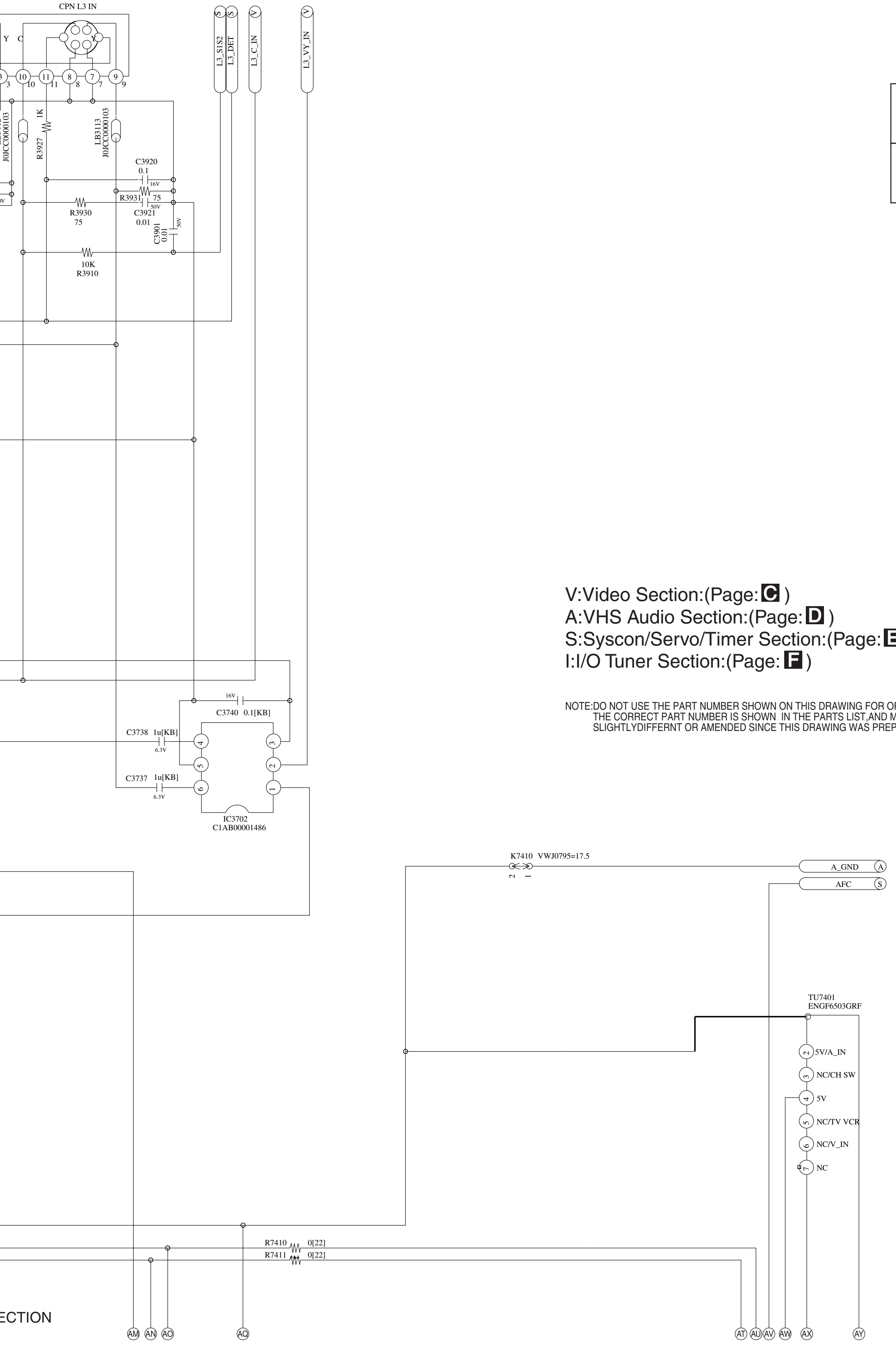
13.17. I/O Tuner Section (2/4) (Main P.C.B.(4/4)) Schematic Diagram (I)


A_5V
COM_MUT_H
CPN_C_IN2
CPN_Y_IN2
L2_DET
L2_V_IN
L3_CPS_H
JC_PON
UNREG_38V
JK3903
K1U822B00007
OR K1U821B00002
LINE IN1[R]
LINE IN3[R]
LINE IN1[L]
LINE IN3[L]
CPS L1 IN
CPS L3 IN
CPN L1 IN
CPN L3 IN
C
Y
R4805 2200
LB4105 J0JCC0000103
LB4106 J0JCC0000103
LB4107 J0JCC0000103
LB4108 J0JCC0000103
R3924 75
LB3108 J0JCC0000103
R3925 75
LB3109 J0JCC0000103
LB3110 J0JCC0000103
R3926 1K
LB3111 J0JCC0000103
LB3112 J0JCC0000103
R3927 1K
LB3113 J0JCC0000103
C3918 16V 0.1
R3928 75
R3929 75
C3919 50V 0.01
R3930 75
10K R3910
C3743 1u[KB]
6.3V
CLP
VCC
GND
C3741 1u[KB]
C3742 1u[KB]
C3739 0.1[KB]
IC3705 C1AB00001682
R3713 10K
IC3707 C1AB00001682
C3753 1u[KB]
C3751 1u[KB]
C3752 1u[KB]
C3754 0.1[KB]
QR7401 UNR511200L
R7402 100K
Q7402 2SD1819A0L
TO I/O TUNER SECTION (4/4)
AD
AE
AF
AG
AH
AI
AJ
AK
6
7
8

F

LOCATION MAP

1/4	2/4
3/4	4/4


CPN L3 IN
Y
C
Y
3
10
11
8
7
9
J0JCC0000103
1K
R3927
LB3113
J0JCC0000103
L3_S1S2
L3_DET
L3_C_IN
L3_VY_IN
S
S
V
V
C3920
0.1
16V
R3931
75
50V
R3930
75
C3921
0.01
C3901
0.01
50V
10K
R3910
16V
C3740 0.1[KB]
C3738 1u[KB]
6.3V
C3737 1u[KB]
6.3V
4
5
6
3
2
1
IC3702
C1AB00001486
K7410 VWJ0795=17.5
2
1
A_GND
A
AFC
S
TU7401
ENGF6503GRF
2 5V/A_IN
3 NC/CH SW
4 5V
5 NC/TV VCR
6 NC/V_IN
7 NC
R7410 0[22]
R7411 0[22]
ECTION
AM
AN
AO
AQ
AT
AU
AV
AW
AX
AY

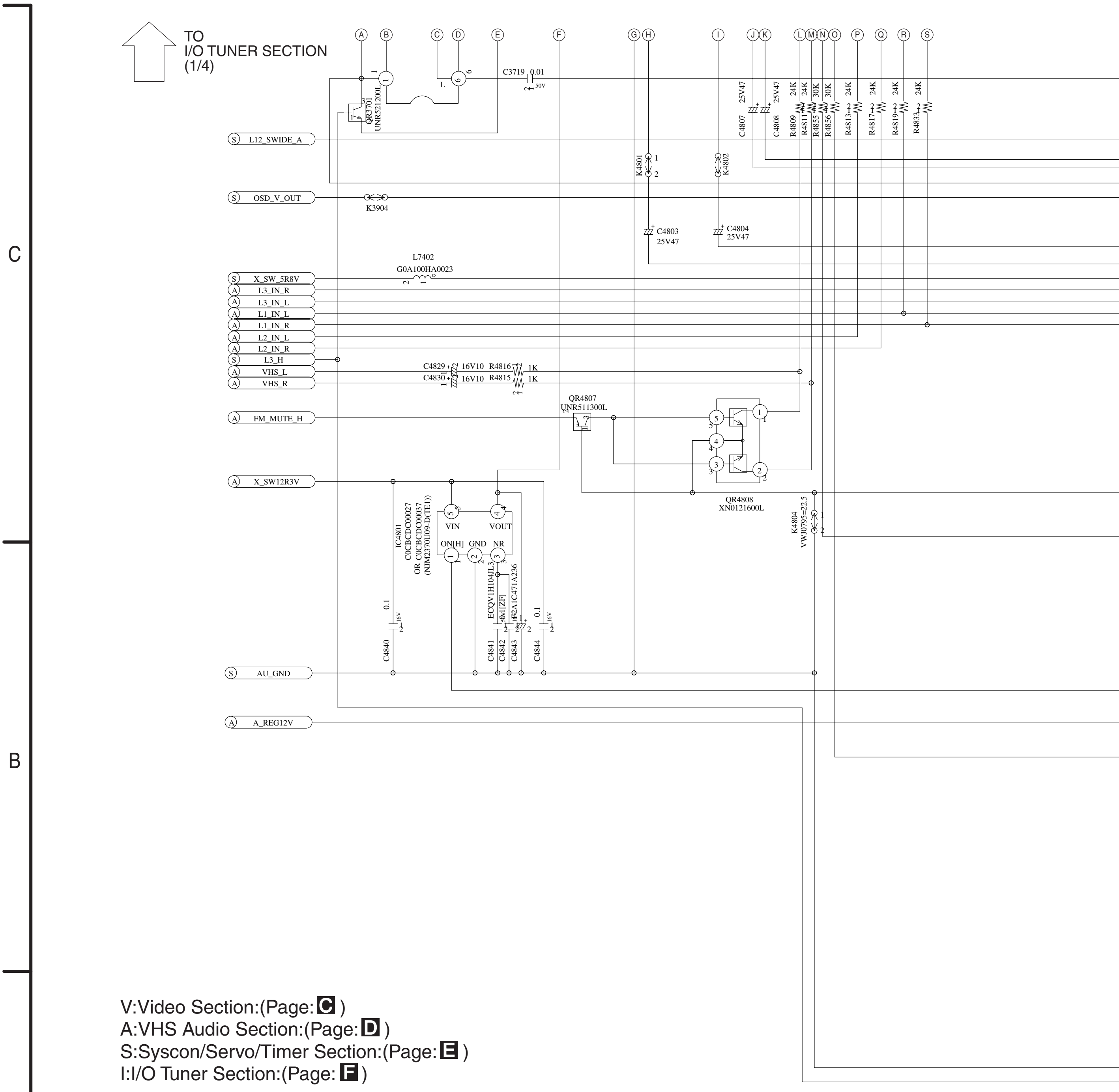
V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH75VP
I/O Tuner(2/4) Section
(Main P.C.B.(4/4))
Schematic Diagram(I)

8 9 10

13.18. I/O Tuner Section (3/4) (Main P.C.B.(4/4)) Schematic Diagram (I)


TO
I/O TUNER SECTION
(1/4)
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
QR3701
UNR521200L
C3719 0.01
50V
L
L12_SWIDE_A
OSD_V_OUT
K3904
K4801
K4802
C4803
25V47
C4804
25V47
C4807 25V47
C4808 25V47
R4809 24K
R4811 24K
R4855 30K
R4856 30K
R4813 24K
R4817 24K
R4819 24K
R4833 24K
L7402
G0A100HA0023
X_SW_5R8V
L3_IN_R
L3_IN_L
L1_IN_L
L1_IN_R
L2_IN_L
L2_IN_R
L3_H
VHS_L
VHS_R
C4829 16V10
C4830 16V10
R4816 1K
R4815 1K
QR4807
UNR511300L
FM_MUTE_H
QR4808
XN0121600L
X_SW12R3V
IC4801
C0CBCDC00027
OR C0CBCDC00037
(NJM2370U09-D(TE1))
VIN
VOUT
ON[H]
GND
NR
K4804
VWJ0795=22.5
ECQV1H104JL3
50V
0.1
16V
C4840
C4841
C4842
C4843
C4844
F2A1C471A236
AU_GND
A_REG12V
C
B
A
1
2
3

V:Video Section:(Page: **C**)
A:VHS Audio Section:(Page: **D**)
S:Syscon/Servo/Timer Section:(Page: **E**)
I:I/O Tuner Section:(Page: **F**)

LOCATION MAP

1/4	2/4
3/4	4/4

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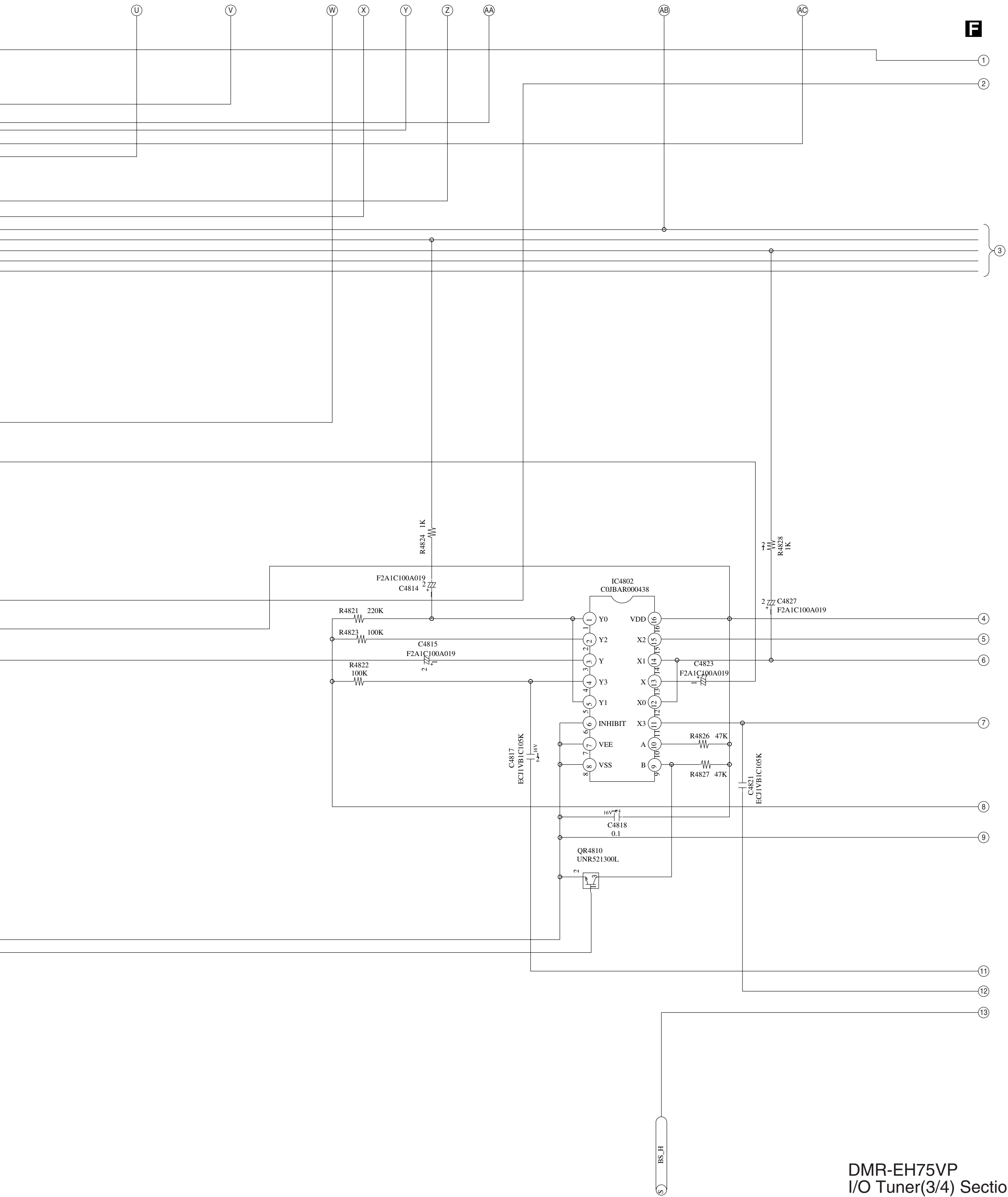
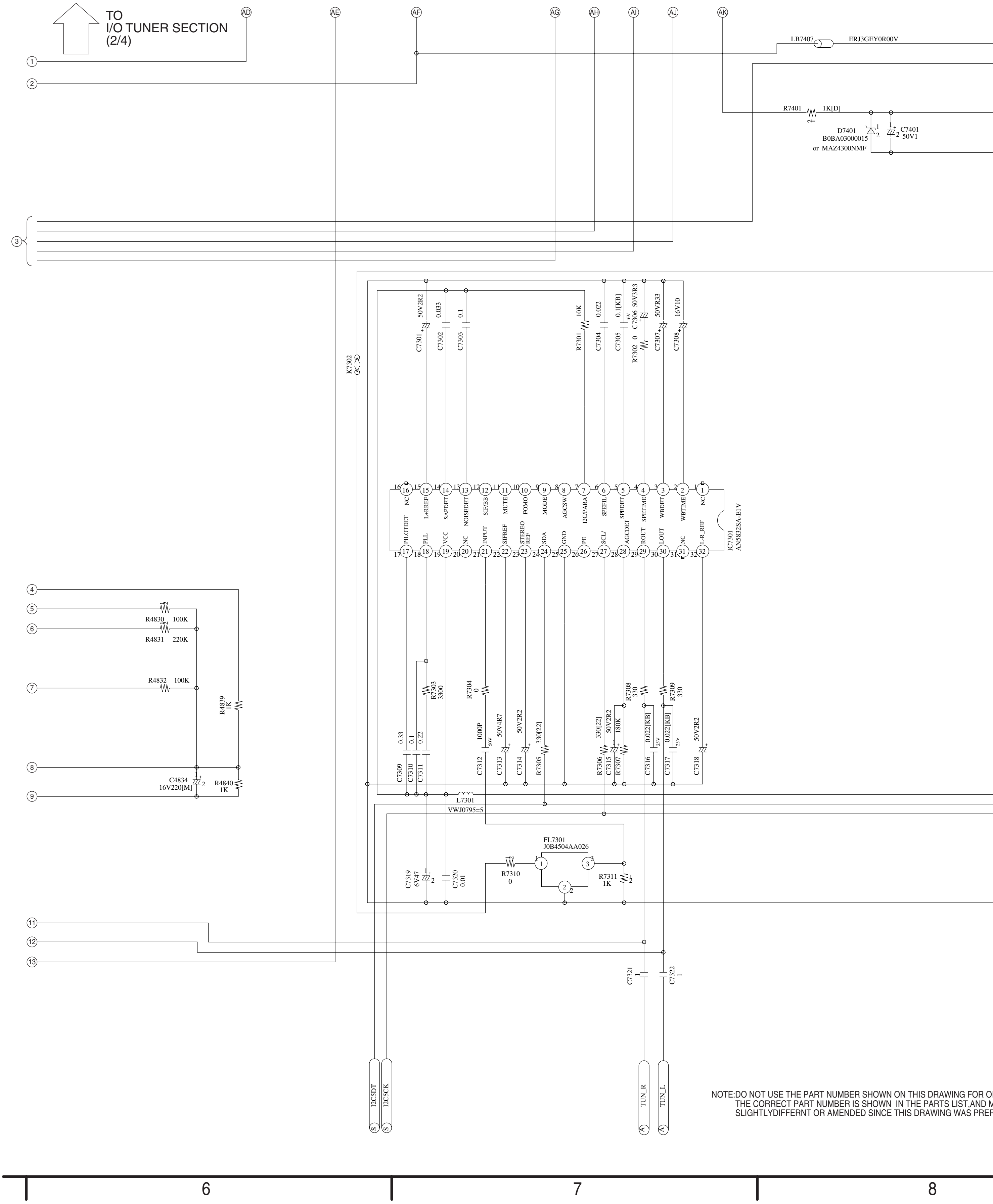
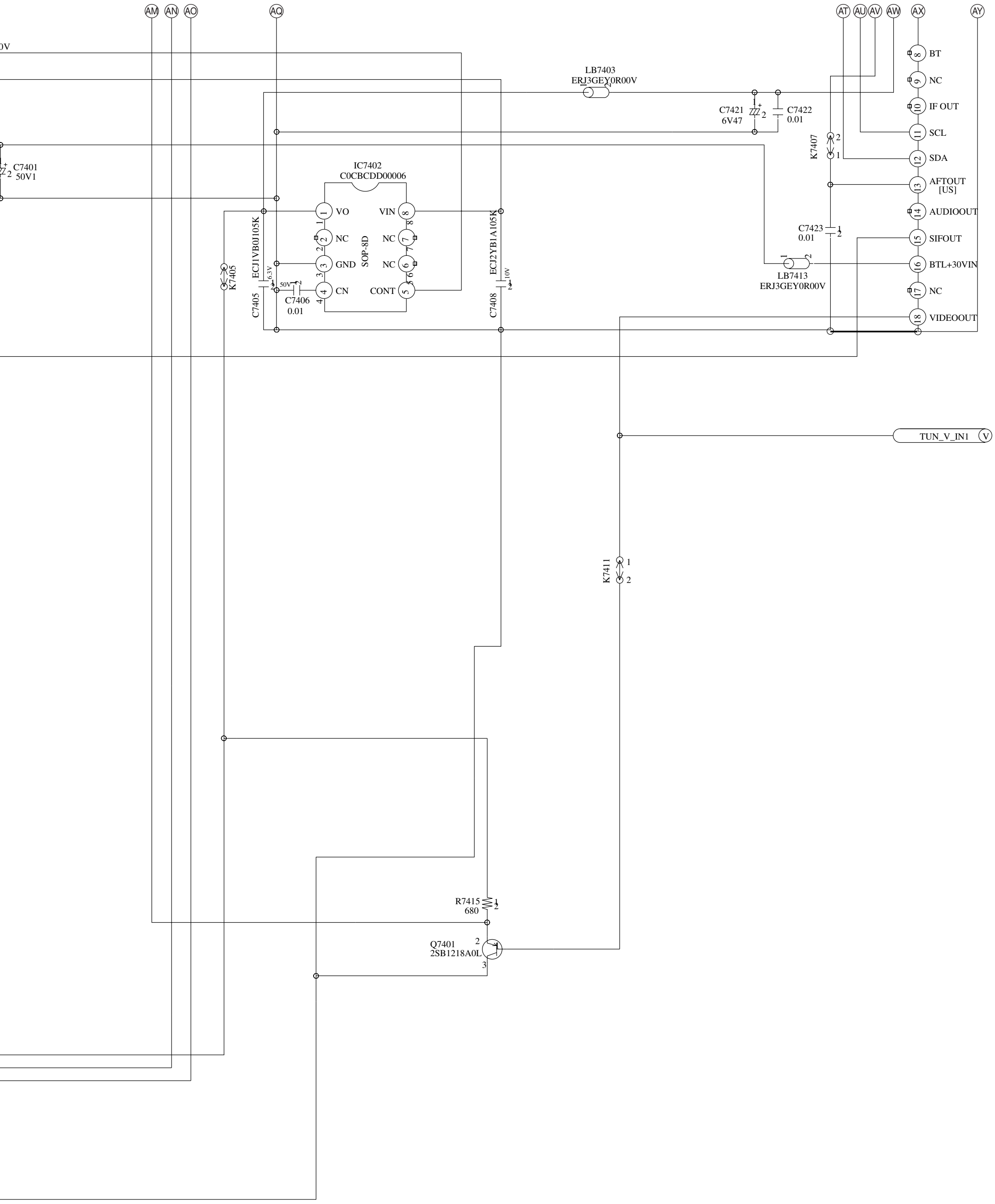

U
V
W
X
Y
Z
AA
AB
AC
F
1
2
3
R4824 1K
R4828 1K
F2A1C100A019
C4814
IC4802
C0JBAR000438
C4827
F2A1C100A019
R4821 220K
R4823 100K
C4815
F2A1C100A019
R4822
100K
C4823
F2A1C100A019
Y0
Y2
Y
Y3
Y1
INHIBIT
VEE
VSS
VDD
X2
X1
X
X0
X3
A
B
R4826 47K
R4827 47K
C4817
ECJ1VB1C105K
16V
C4821
ECJ1VB1C105K
16V
C4818
0.1
QR4810
UNR521300L
4
5
6
7
8
9
11
12
13
BS_H
S
3
4
5

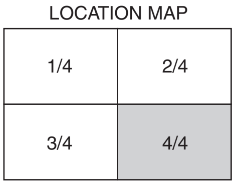
DMR-EH75VP
I/O Tuner(3/4) Section
(Main P.C.B.(4/4))
Schematic Diagram(I)

13.19. I/O Tuner Section (4/4) (Main P.C.B.(4/4)) Schematic Diagram (I)


TO
I/O TUNER SECTION
(2/4)
AD
AE
AF
AG
AH
AI
AJ
AK
LB7407
ERJ3GEY0R00V
R7401
1K[D]
D7401
B0BA03000015
or MAZ4300NMF
C7401
50V1
K7302
C7301
50V2R2
C7302
0.033
C7303
0.1
R7301
10K
C7304
0.022
C7305
0.1[KB]
C7306
16V
50V3R3
R7302
0
C7307
50VR33
C7308
16V10
IC7301
AN5832SA-E1V
NC
L+RREF
SAPDET
NOISEDET
SIF/BB
MUTE
FOMO
MODE
AGCSW
I2C/PARA
SPEFIL
SPEDET
SPETIME
WBDET
WBTIME
NC
PILOTDET
PLL
VCC
NC
INPUT
SIFREF
STEREO REF
SDA
GND
PE
SCL/
AGCDET
ROUT
LOUT
NC
L-R_REF
R4830
100K
R4831
220K
R4832
100K
R4839
1K
C4834
16V220[M]
R4840
1K
R7303
3300
R7304
0
C7309
0.33
C7310
0.1
C7311
0.22
C7312
1000P
50V
C7313
50V4R7
C7314
50V2R2
R7305
330[22]
R7306
330[22]
C7315
50V2R2
R7307
180K
R7308
330
C7316
0.022[KB]
25V
R7309
330
C7317
0.022[KB]
25V
C7318
50V2R2
L7301
VWJ0795=5
FL7301
J0B4504AA026
R7310
0
R7311
1K
C7319
6V47
C7320
0.01
C7321
1
C7322
1
I2C5DT
I2C5CK
TUN_R
TUN_L
6
7
8

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR O
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND M
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREP


AM
AN
AO
AQ
AT
AU
AV
AW
AX
AY
0V
C7401
50V1
LB7403
ERJ3GEY0R00V
C7421
6V47
C7422
0.01
K7407
IC7402
C0CBCDD00006
VO
NC
GND
CN
VIN
NC
NC
CONT
SOP-8D
ECJ1VB0J105K
6.3V
C7405
K7405
50V
C7406
0.01
ECJ2YB1A105K
10V
C7408
C7423
0.01
LB7413
ERJ3GEY0R00V
BT
NC
IF OUT
SCL
SDA
AFTOUT
[US]
AUDIOOUT
SIFOUT
BTL+30VIN
NC
VIDEOOUT
TUN_V_IN1
V
K7411
R7415
680
Q7401
2SB1218A0L

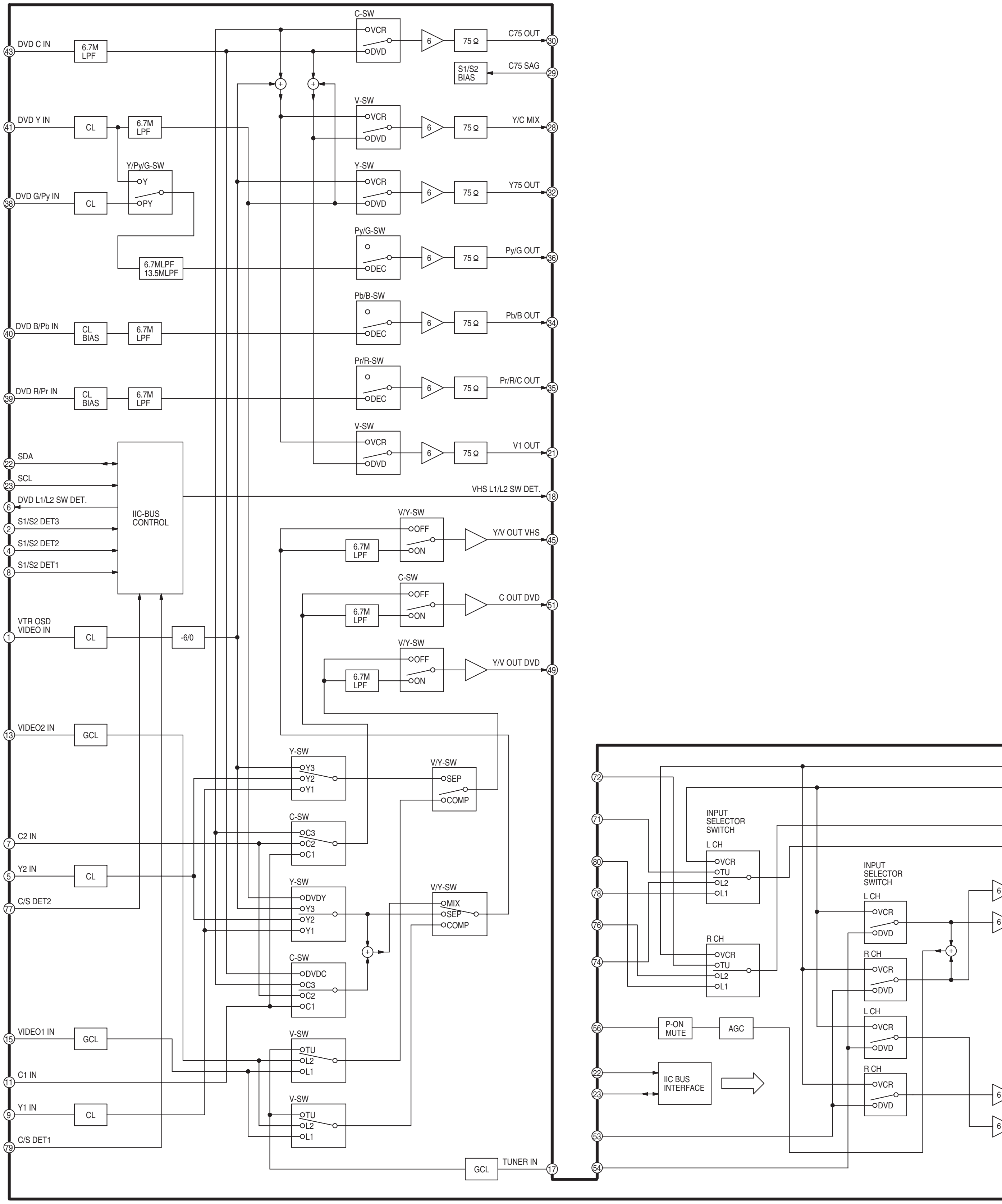

LOCATION MAP
1/4
2/4
3/4
4/4

I ON THIS DRAWING FOR ORDERRING.
IN THE PARTS LIST,AND MAY BE
E THIS DRAWING WAS PREPARED.

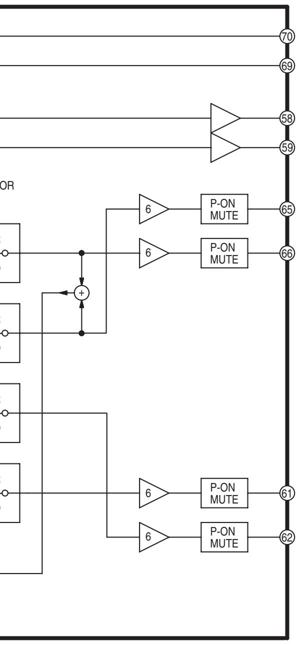
V:Video Section:(Page: C)
A:VHS Audio Section:(Page: D)
S:Syscon/Servo/Timer Section:(Page: E)
I:I/O Tuner Section:(Page: F)

DMR-EH75VP
I/O Tuner(4/4) Section
(Main P.C.B.(4/4))
Schematic Diagram(I)

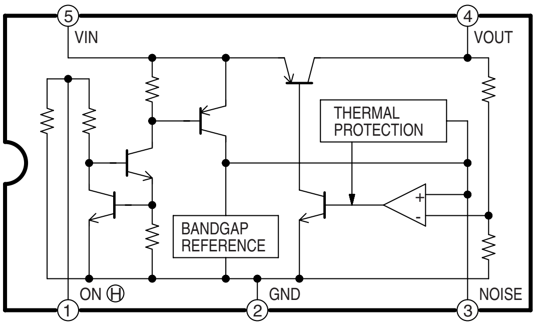
IC3701
VIDEO/AUDIO PROCESSOR
IC-DETAIL BLOCK DIAGRAM



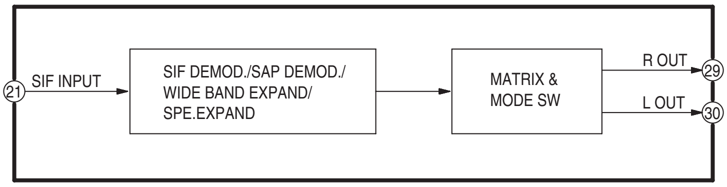
DVD C IN
43
6.7M LPF
C-SW
VCR
DVD
6
75 Ω
C75 OUT
30
S1/S2 BIAS
C75 SAG
29
DVD Y IN
41
CL
6.7M LPF
V-SW
Y/C MIX
28
Y/Py/G-SW
Y
PY
DVD G/Py IN
38
Y-SW
Y75 OUT
32
6.7MLPF 13.5MLPF
Py/G-SW
DEC
Py/G OUT
36
Pb/B-SW
DVD B/Pb IN
40
CL BIAS
Pb/B OUT
34
Pr/R-SW
DVD R/Pr IN
39
Pr/R/C OUT
35
V1 OUT
21
SDA
22
SCL
23
DVD L1/L2 SW DET.
6
S1/S2 DET3
2
S1/S2 DET2
4
S1/S2 DET1
8
IIC-BUS CONTROL
VHS L1/L2 SW DET.
18
V/Y-SW
OFF
ON
Y/V OUT VHS
45
C OUT DVD
51
Y/V OUT DVD
49
VTR OSD VIDEO IN
1
-6/0
VIDEO2 IN
13
GCL
Y3
Y2
Y1
SEP
COMP
C3
C2
C1
C2 IN
7
Y2 IN
5
C/S DET2
77
DVDY
MIX
DVDC
VIDEO1 IN
15
TU
L2
L1
C1 IN
11
Y1 IN
9
C/S DET1
79
TUNER IN
17
72
71
80
78
76
74
INPUT SELECTOR SWITCH
L CH
R CH
56
P-ON MUTE
AGC
22
23
IIC BUS INTERFACE
53
54


70
69
58
59
OR
6
P-ON MUTE
65
6
P-ON MUTE
66
+
6
P-ON MUTE
61
6
P-ON MUTE
62

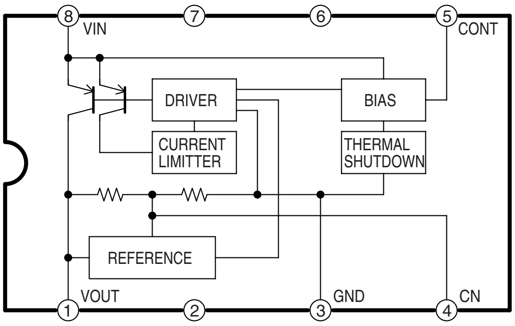
IC4801
AU +9V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM


5
VIN
4
VOUT
THERMAL PROTECTION
+
-
BANDGAP REFERENCE
ON Ⓗ
1
GND
2
NOISE
3

IC7301
AUDIO MULTIPLEX DECODER
IC-DETAIL BLOCK DIAGRAM

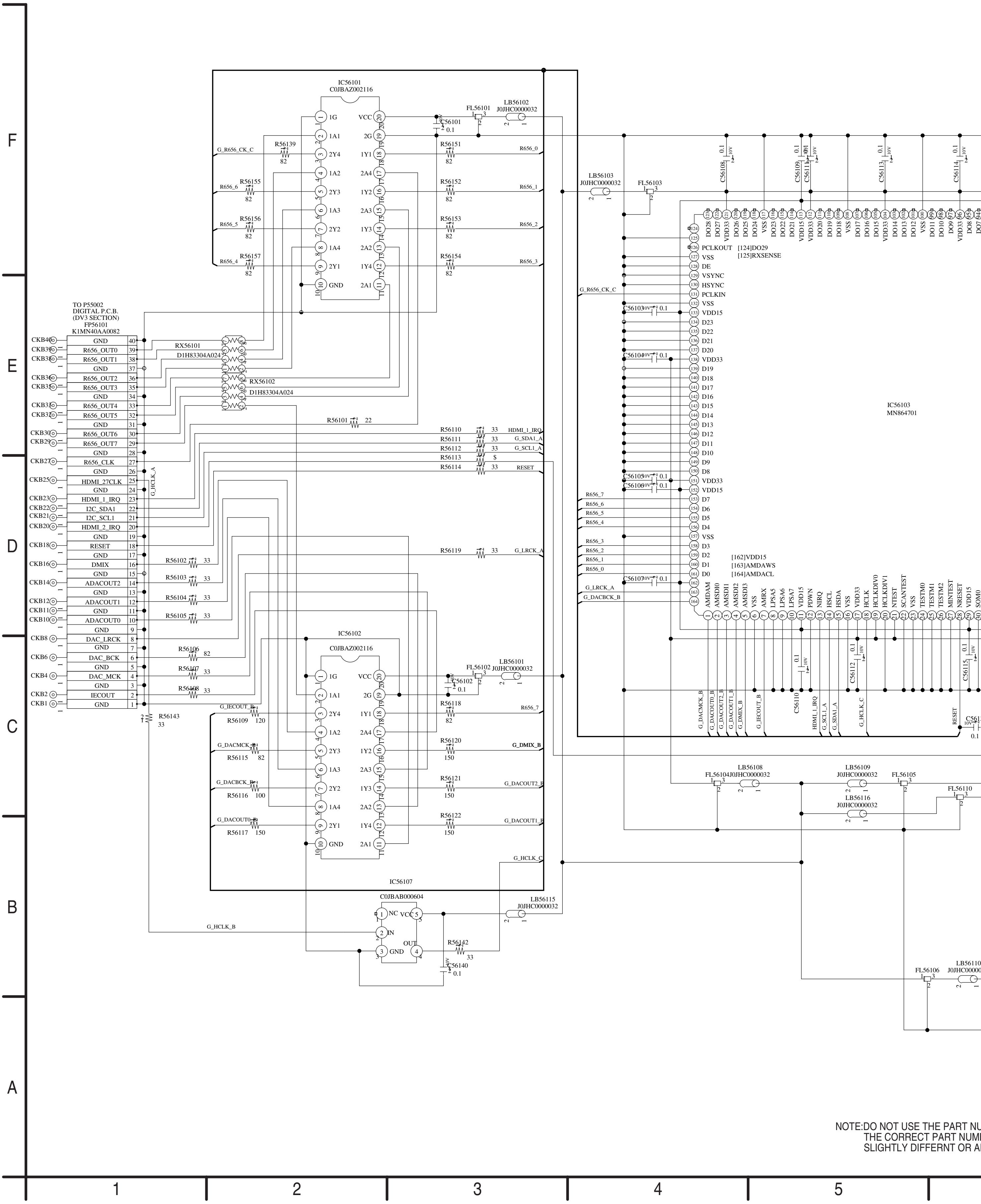

21
SIF INPUT
SIF DEMOD./SAP DEMOD./
WIDE BAND EXPAND/
SPE.EXPAND
MATRIX &
MODE SW
R OUT
29
L OUT
30

IC7402
TU +5V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM


8
VIN
7
6
5
CONT
DRIVER
BIAS
CURRENT LIMITTER
THERMAL SHUTDOWN
REFERENCE
VOUT
1
2
GND
3
CN
4

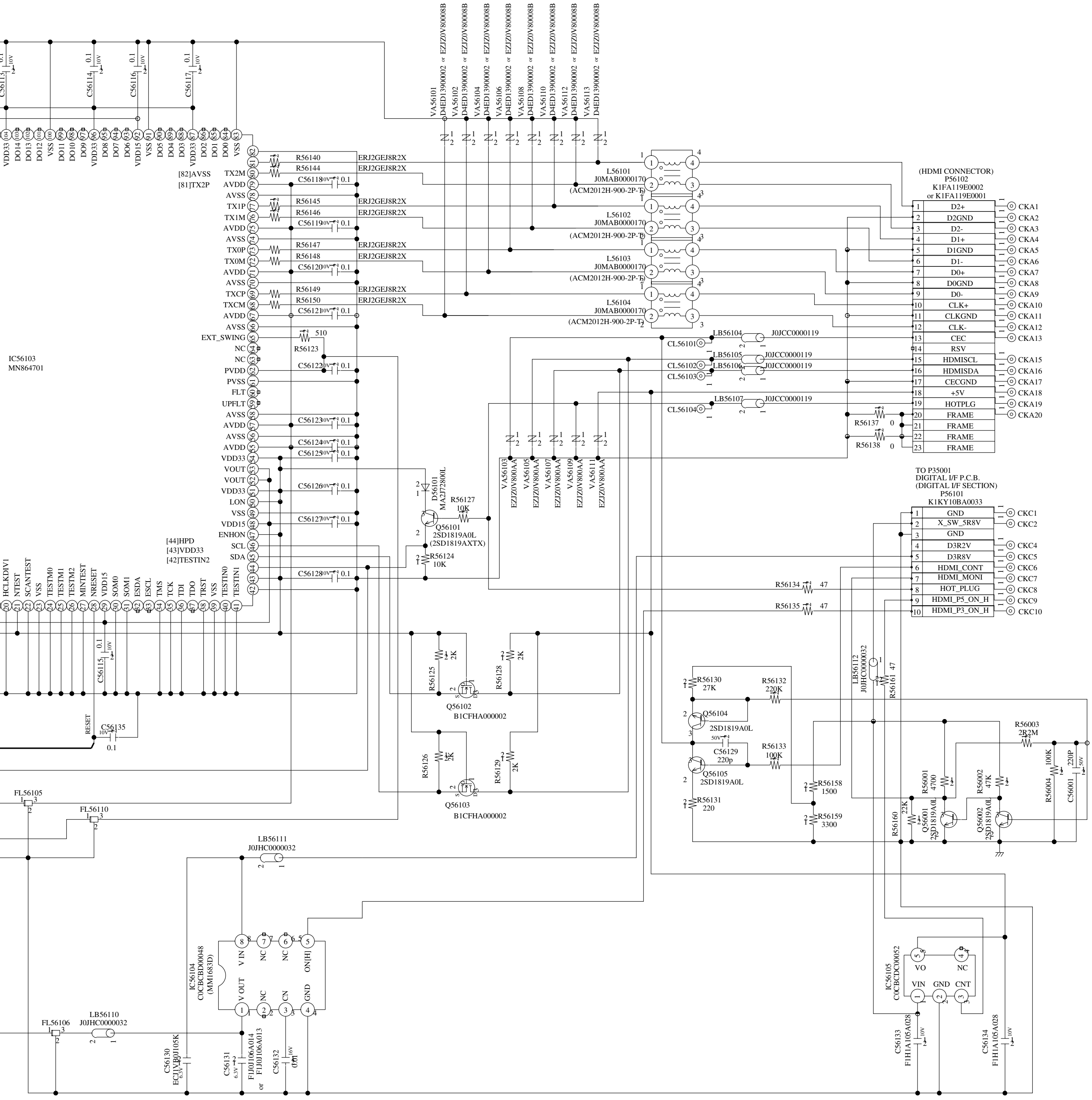
IC3701 Detail Block Diagram
IC4801 Detail Block Diagram
IC7301 Detail Block Diagram
IC7402 Detail Block Diagram
DMR-EH75VP IC-Detail Block Diagram

13.20. HDMI Schematic Diagram



IC56101
C0JBAZ002116
1G
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2G
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
FL56101
LB56102
J0JHC0000032
C56101
0.1
R56139
R56155
R56156
R56157
82
R56151
R56152
R56153
R56154
G_R656_CK_C
R656_6
R656_5
R656_4
R656_0
R656_1
R656_2
R656_3
LB56103
J0JHC0000032
FL56103
C56108
C56109
C56111
C56113
C56114
10V
TO P55002
DIGITAL P.C.B.
(DV3 SECTION)
FP56101
K1MN40AA0082
GND
R656_OUT0
R656_OUT1
R656_OUT2
R656_OUT3
R656_OUT4
R656_OUT5
R656_OUT6
R656_OUT7
R656_CLK
HDMI_27CLK
HDMI_1_IRQ
I2C_SDA1
I2C_SCL1
HDMI_2_IRQ
RESET
DMIX
ADACOUT2
ADACOUT1
ADACOUT0
DAC_LRCK
DAC_BCK
DAC_MCK
IECOUT
CKB40
CKB39
CKB38
CKB36
CKB35
CKB33
CKB32
CKB30
CKB29
CKB27
CKB25
CKB23
CKB22
CKB21
CKB20
CKB18
CKB16
CKB14
CKB12
CKB11
CKB10
CKB8
CKB6
CKB4
CKB2
CKB1
RX56101
D1H83304A024
RX56102
D1H83304A024
R56101
22
R56110
R56111
R56112
R56113
R56114
33
HDMI_1_IRQ
G_SDA1_A
G_SCL1_A
RESET
G_HCLK_A
R56119
G_LRCK_A
R56102
R56103
R56104
R56105
R56106
R56107
R56108
R56143
IC56102
C0JBAZ002116
FL56102
LB56101
J0JHC0000032
C56102
G_IECOUT_B
R56109
120
G_DACMCK_B
R56115
G_DACBCK_B
R56116
100
G_DACOUT0_B
R56117
150
R56118
R656_7
R56120
G_DMIX_B
R56121
G_DACOUT2_B
R56122
G_DACOUT1_B
G_HCLK_C
IC56107
C0JBAB000604
NC
VCC
IN
OUT
LB56115
J0JHC0000032
R56142
C56140
G_HCLK_B
IC56103
MN864701
PCLKOUT
VSS
DE
VSYNC
HSYNC
PCLKIN
VDD15
VDD33
D23 D22 D21 D20 D19 D18 D17 D16 D15 D14 D13 D12 D11 D10 D9 D8
D7 D6 D5 D4 D3 D2 D1 D0
[124]DO29
[125]RXSENSE
[162]VDD15
[163]AMDAWS
[164]AMDACL
C56103
C56104
C56105
C56106
C56107
R656_7
R656_6
R656_5
R656_4
R656_3
R656_2
R656_1
R656_0
G_LRCK_A
G_DACBCK_B
DO28 DO27 VDD33 DO26 DO25 DO24 VSS DO23 DO22 DO21 VDD15 VDD33 DO20 DO19 DO18 VSS DO17 DO16 DO15 VDD33 DO14 DO13 DO12 VSS DO11 DO10 DO9 VDD33 DO8 DO7
AMDAM AMSDI0 AMSDI1 AMSDI2 AMSDI3 VSS AMRX LPSA5 LPSA6 LPSA7 VDD15 PDWN NIRQ HSCL HSDA VSS VDD33 HCLK HCLKDIV0 HCLKDIV1 NTEST SCANTEST VSS TESTM0 TESTM1 TESTM2 MINTEST NRESET VDD15 SOM0
G_DACMCK_B
G_DACOUT0_B
G_DACOUT2_B
G_DACOUT1_B
G_DMIX_B
G_IECOUT_B
C56110
HDMI_1_IRQ
G_SCL1_A
G_SDA1_A
G_HCLK_C
C56112
C56115
RESET
LB56108
FL56104
J0JHC0000032
LB56109
J0JHC0000032
FL56105
LB56116
J0JHC0000032
FL56110
FL56106
LB56110
F
E
D
C
B
A
1
2
3
4
5

NOTE:DO NOT USE THE PART NU
THE CORRECT PART NUMB
SLIGHTLY DIFFERNT OR A

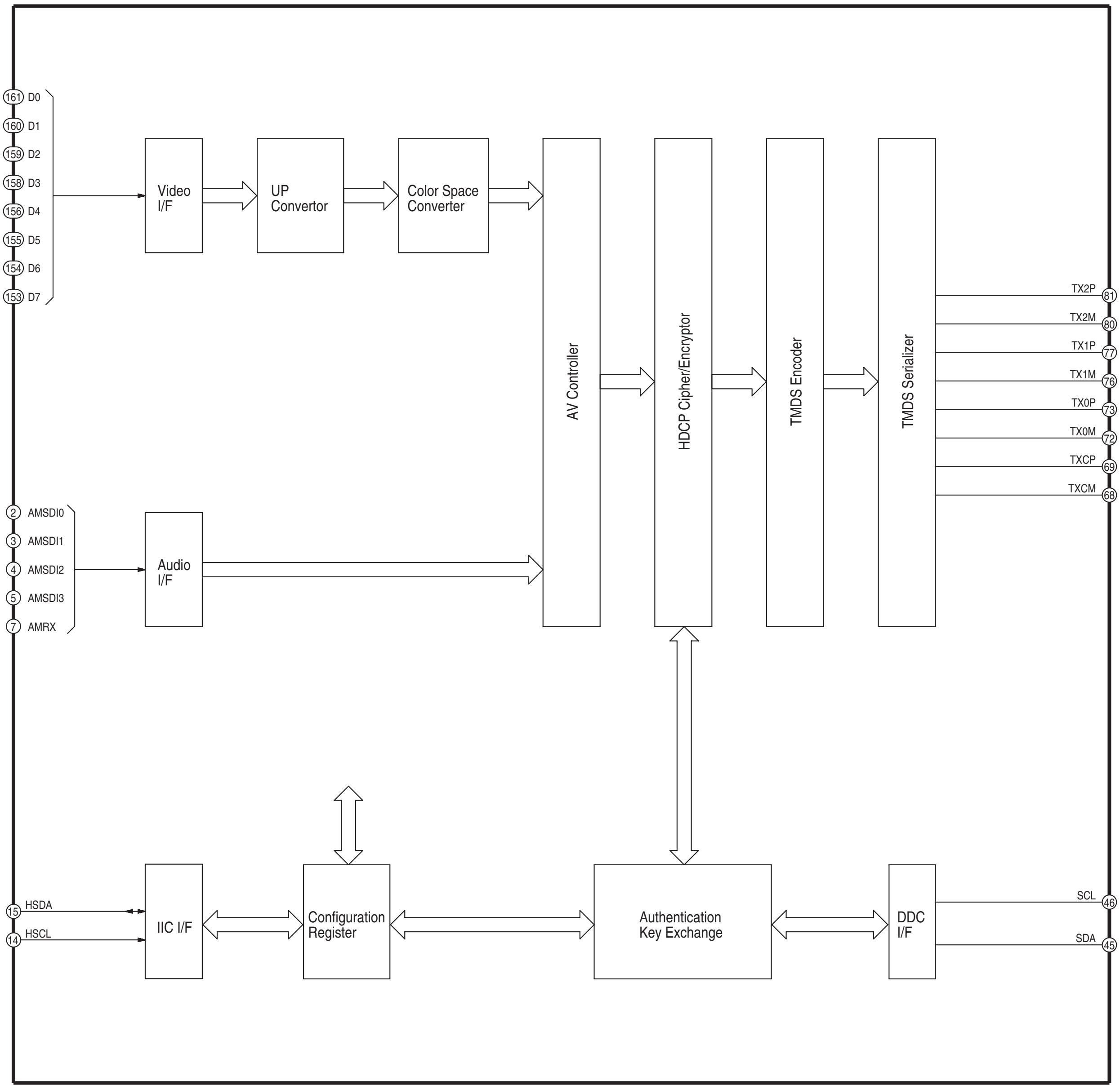

IC56103
MN864701
VA56101
VA56102
VA56104
VA56106
VA56108
VA56110
VA56112
VA56113
D4ED13900002 or EZJZ0V80008B
R56140
R56144
R56145
R56146
R56147
R56148
R56149
R56150
ERJ2GEJ8R2X
C56118
C56119
C56120
C56121
C56122
C56123
C56124
C56125
C56126
C56127
C56128
0.1
10V
[82]AVSS
[81]TX2P
TX2M
AVDD
AVSS
TX1P
TX1M
TX0P
TX0M
TXCP
TXCM
EXT_SWING
NC
PVDD
PVSS
FLT
UPFLT
VDD33
VOUT
LON
VSS
VDD15
ENHON
SCL
SDA
[44]HPD
[43]VDD33
[42]TESTIN2
TESTIN0
TESTIN1
HCLKDIV1
NTEST
SCANTEST
TESTM0
TESTM1
TESTM2
MINTEST
NRESET
SOM0
SOM1
ESDA
ESCL
TMS
TCK
TDI
TDO
TRST
DO14
DO13
DO12
DO11
DO10
DO9
DO8
DO7
DO6
DO5
DO4
DO3
DO2
DO1
DO0
C56113
C56114
C56116
C56117
C56115
C56135
RESET
R56123
510
L56101
L56102
L56103
L56104
J0MAB0000170
(ACM2012H-900-2P-T)
(HDMI CONNECTOR)
P56102
K1FA119E0002
or K1FA119E0001
D2+
D2GND
D2-
D1+
D1GND
D1-
D0+
D0GND
D0-
CLK+
CLKGND
CLK-
CEC
RSV
HDMISCL
HDMISDA
CECGND
+5V
HOTPLG
FRAME
CKA1
CKA2
CKA3
CKA4
CKA5
CKA6
CKA7
CKA8
CKA9
CKA10
CKA11
CKA12
CKA13
CKA15
CKA16
CKA17
CKA18
CKA19
CKA20
LB56104
LB56105
LB56106
LB56107
J0JCC0000119
CL56101
CL56102
CL56103
CL56104
R56137
R56138
0
VA56103
VA56105
VA56107
VA56109
VA56111
EZJZ0V800AA
D56101
MA2J72800L
R56127
10K
Q56101
2SD1819A0L
(2SD1819AXTX)
R56124
10K
TO P35001
DIGITAL I/F P.C.B.
(DIGITAL I/F SECTION)
P56101
K1KY10BA0033
GND
X_SW_5R8V
D3R2V
D3R8V
HDMI_CONT
HDMI_MONI
HOT_PLUG
HDMI_P5_ON_H
HDMI_P3_ON_H
CKC1
CKC2
CKC4
CKC5
CKC6
CKC7
CKC8
CKC9
CKC10
R56134
R56135
47
R56125
R56126
R56128
R56129
2K
Q56102
Q56103
B1CFHA000002
R56130
27K
R56132
220K
Q56104
2SD1819A0L
C56129
220p
50V
R56133
100K
Q56105
2SD1819A0L
R56131
220
R56158
1500
R56159
3300
LB56112
J0JHC0000032
R56161
47
R56003
2R2M
R56001
4700
R56002
47K
R56160
22K
Q56001
2SD1819A0L
Q56002
2SD1819A0L
R56004
100K
C56001
220P
FL56105
FL56110
LB56111
J0JHC0000032
IC56104
C0CBCBD00048
(MM1683D)
V IN
NC
ON[H]
V OUT
CN
GND
C56130
ECJ1VB0J105K
6.3V
C56131
F1J0J106A014
F1J0J106A013
or
C56132
0.01
16V
FL56106
LB56110
J0JHC0000032
IC56105
C0CBCDC00052
VO
VIN
CNT
C56133
F1H1A105A028
C56134
F1H1A105A028

NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
E CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
GHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

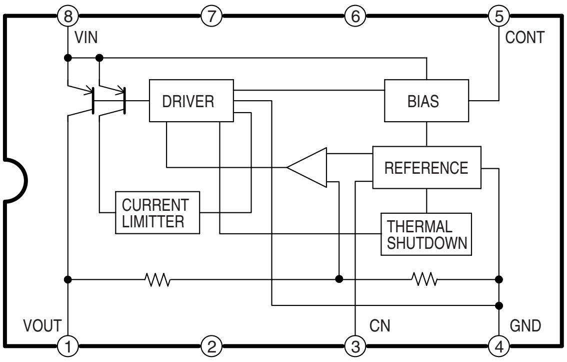
DMR-EH75VP
HDMI Schematic Diagram

6 7 8 9 10

IC56103
HDMI TRANSMITTER
IC-DETAIL BLOCK DIAGRAM

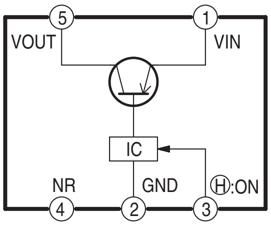

161 D0
160 D1
159 D2
158 D3
156 D4
155 D5
154 D6
153 D7
Video I/F
UP Convertor
Color Space Converter
AV Controller
HDCP Cipher/Encryptor
TMDS Encoder
TMDS Serializer
TX2P 81
TX2M 80
TX1P 77
TX1M 76
TX0P 73
TX0M 72
TXCP 69
TXCM 68
2 AMSDI0
3 AMSDI1
4 AMSDI2
5 AMSDI3
7 AMRX
Audio I/F
15 HSDA
14 HSCL
IIC I/F
Configuration Register
Authentication Key Exchange
DDC I/F
SCL 46
SDA 45

IC56104
+3.3V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM



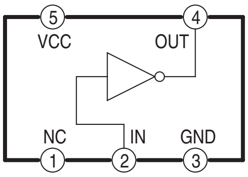
8
7
6
5
VIN
CONT
DRIVER
BIAS
REFERENCE
CURRENT LIMITTER
THERMAL SHUTDOWN
VOUT
CN
GND
1
2
3
4

IC56105
+5V SWITCHING REG.
IC-DETAIL BLOCK DIAGRAM



5
1
VOUT
VIN
IC
NR
GND
H:ON
4
2
3

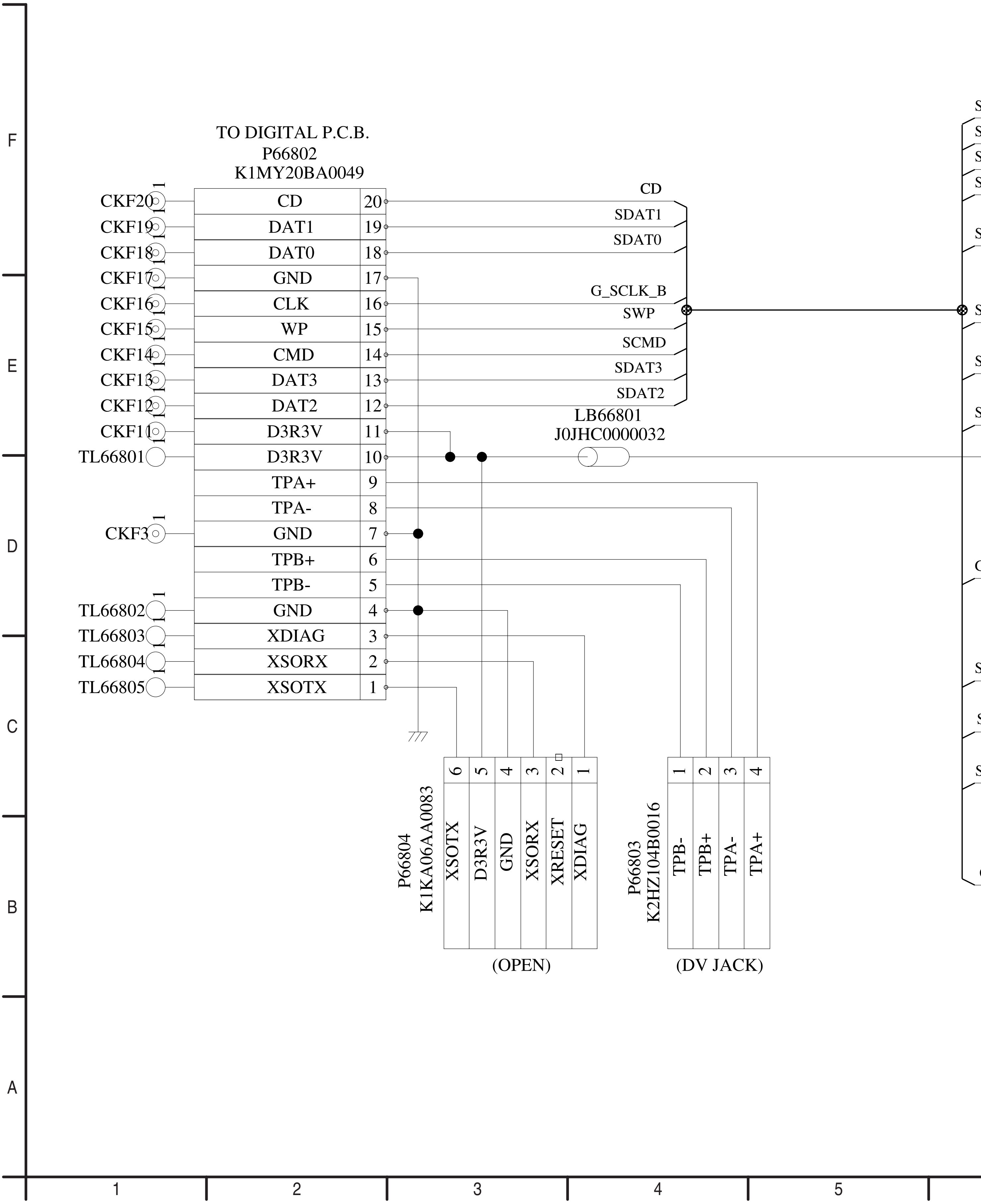
IC56107
INVERTER
IC-DETAIL BLOCK DIAGRAM



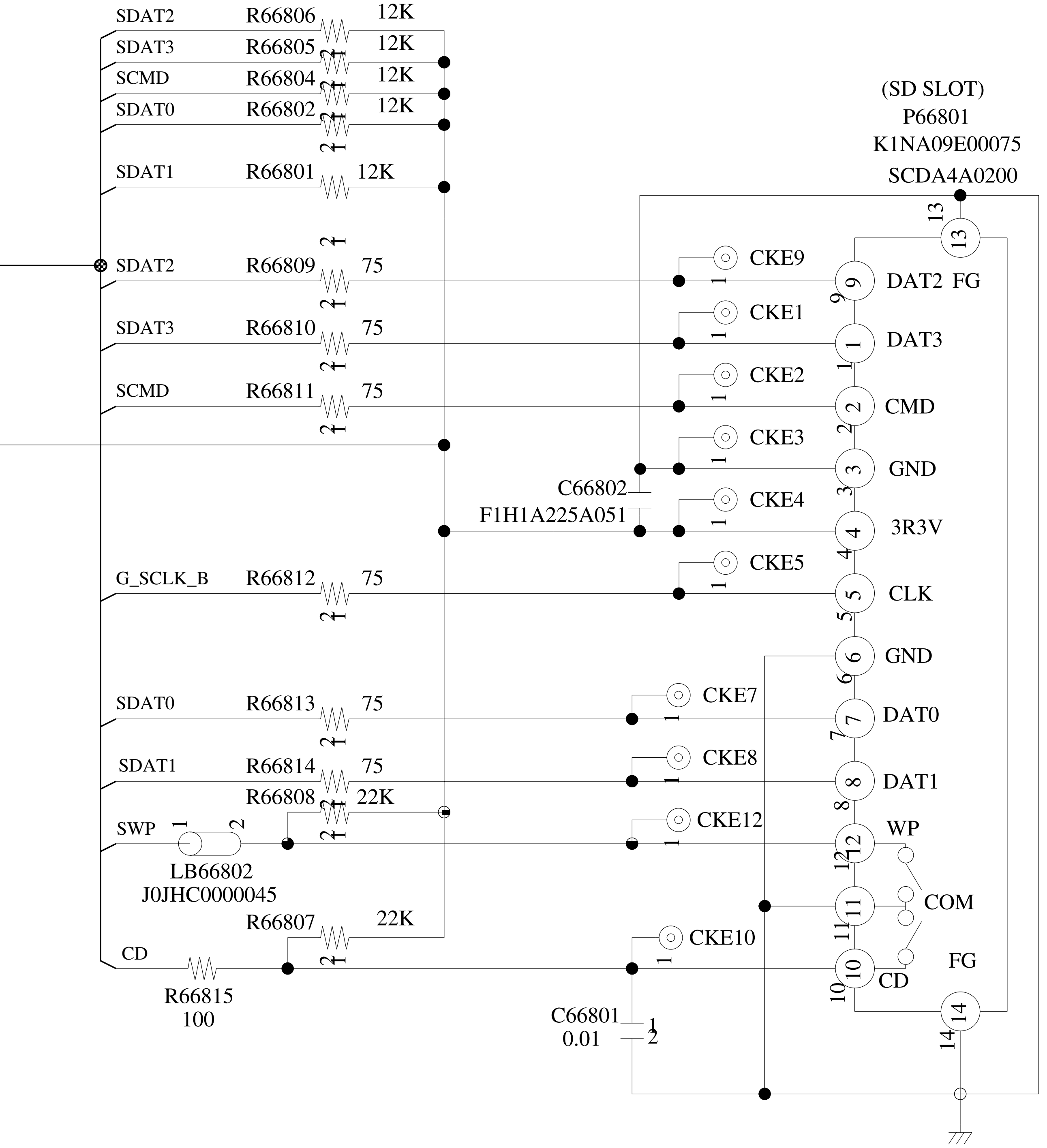
5
4
VCC
OUT
NC
IN
GND
1
2
3

IC56103 Detail Block Diagram
IC56104 Detail Block Diagram
IC56105 Detail Block Diagram
IC56107 Detail Block Diagram
DMR-EH75VP IC-Detail Block Diagram

13.21. SD Card/DV Jack Schematic Diagram



F
E
D
C
B
A
1
2
3
4
5
TO DIGITAL P.C.B.
P66802
K1MY20BA0049
CKF20
CKF19
CKF18
CKF17
CKF16
CKF15
CKF14
CKF13
CKF12
CKF11
TL66801
CKF3
TL66802
TL66803
TL66804
TL66805
CD 20
DAT1 19
DAT0 18
GND 17
CLK 16
WP 15
CMD 14
DAT3 13
DAT2 12
D3R3V 11
D3R3V 10
TPA+ 9
TPA- 8
GND 7
TPB+ 6
TPB- 5
GND 4
XDIAG 3
XSORX 2
XSOTX 1
CD
SDAT1
SDAT0
G_SCLK_B
SWP
SCMD
SDAT3
SDAT2
LB66801
J0JHC0000032
P66804
K1KA06AA0083
6 XSOTX
5 D3R3V
4 GND
3 XSORX
2 XRESET
1 XDIAG
(OPEN)
P66803
K2HZ104B0016
1 TPB-
2 TPB+
3 TPA-
4 TPA+
(DV JACK)

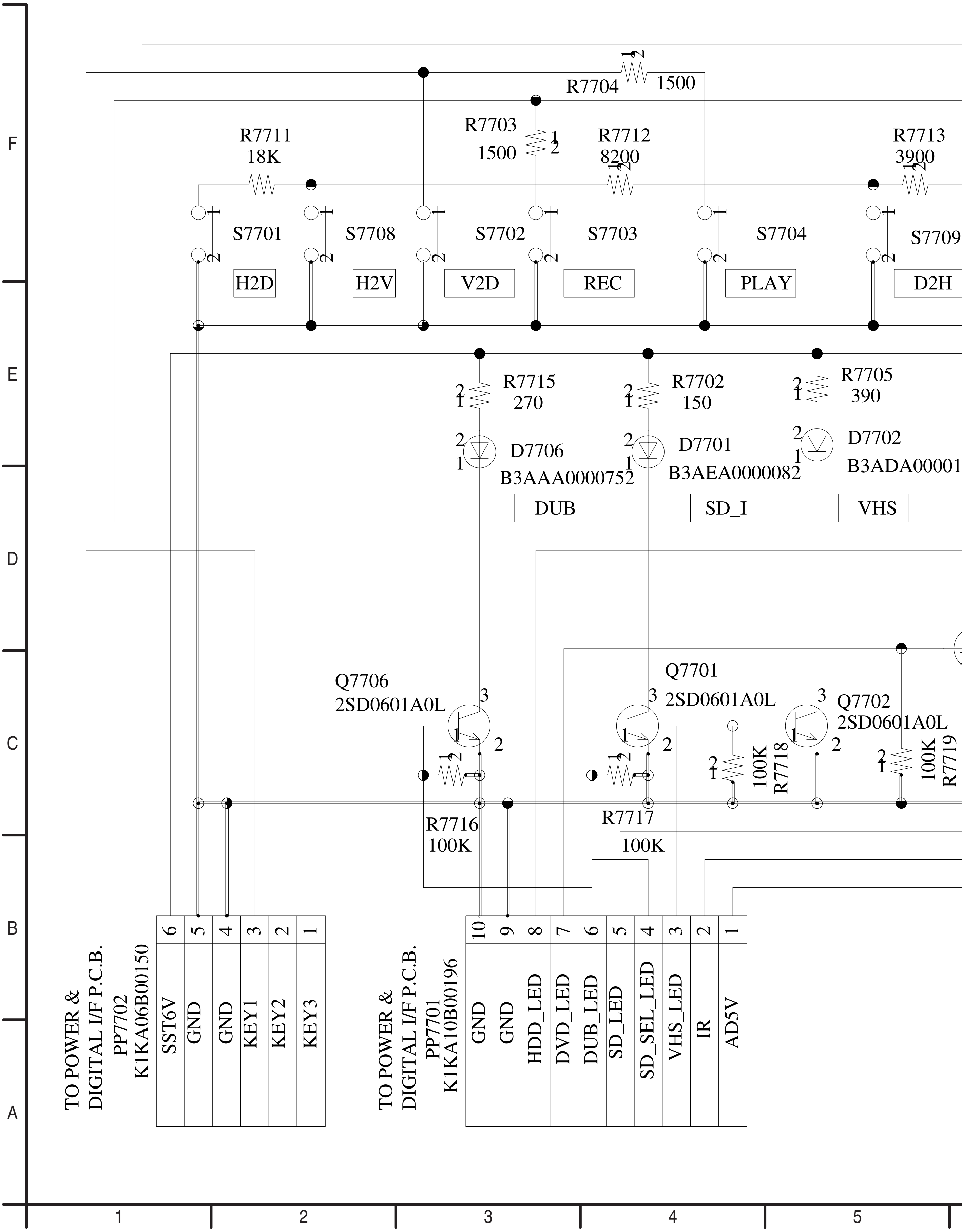

SDAT2
R66806
12K
SDAT3
R66805
12K
SCMD
R66804
12K
SDAT0
R66802
12K
SDAT1
R66801
12K
(SD SLOT)
P66801
K1NA09E00075
SCDA4A0200
SDAT2
R66809
75
CKE9
DAT2 FG
SDAT3
R66810
75
CKE1
DAT3
SCMD
R66811
75
CKE2
CMD
CKE3
GND
C66802
F1H1A225A051
CKE4
3R3V
G_SCLK_B
R66812
75
CKE5
CLK
GND
SDAT0
R66813
75
CKE7
DAT0
SDAT1
R66814
75
CKE8
DAT1
R66808
22K
SWP
CKE12
WP
LB66802
J0JHC0000045
COM
R66807
22K
CKE10
CD
FG
CD
R66815
100
C66801
0.01

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

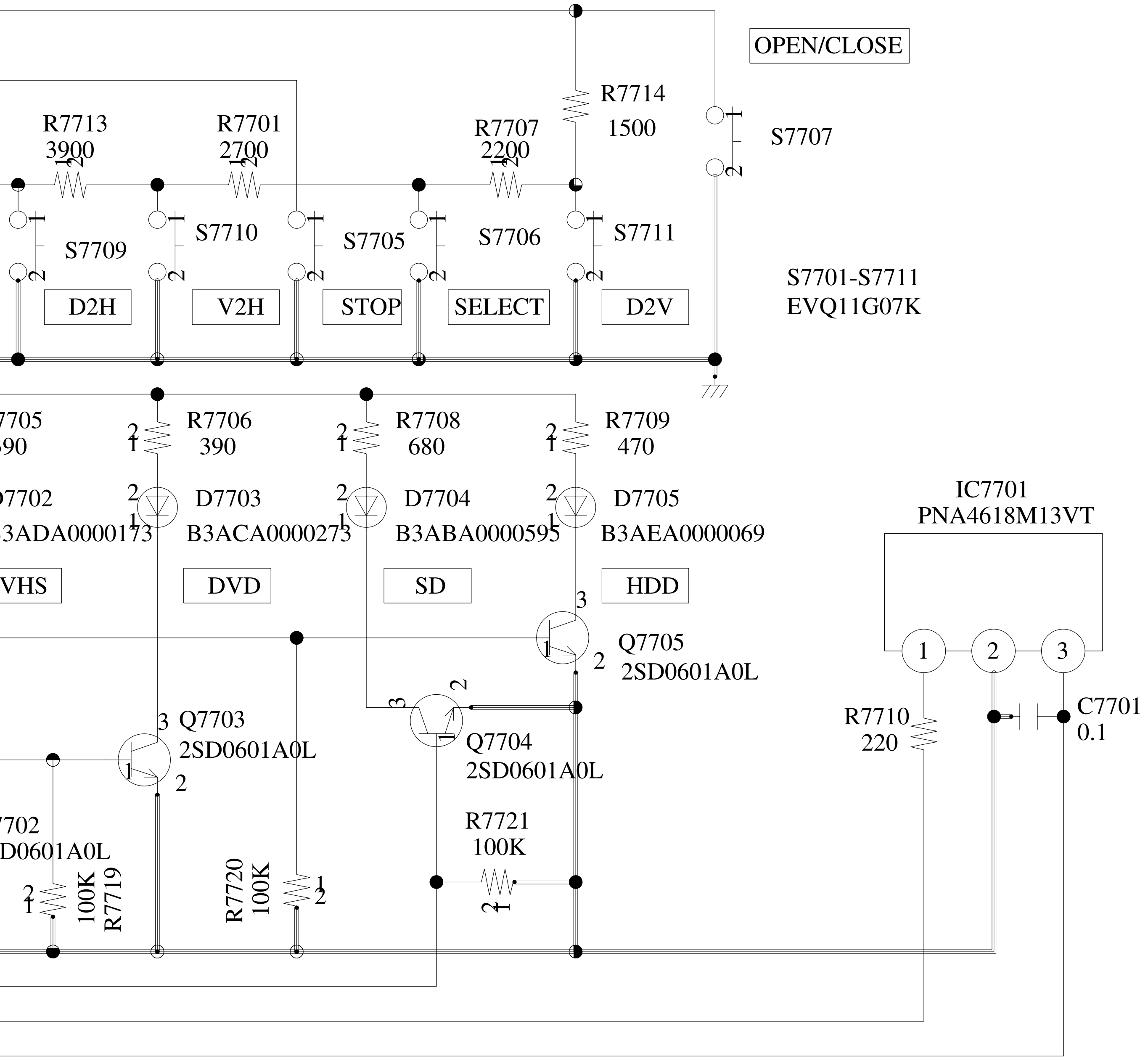
DMR-EH75VP
SD Card/DV Jack
Schematic Diagram

6 7 8 9 10

13.22. Front (R) Schematic Diagram



F
E
D
C
B
A
1
2
3
4
5
R7704 1500
R7703 1500
R7711 18K
R7712 8200
R7713 3900
S7701
S7708
S7702
S7703
S7704
S7709
H2D
H2V
V2D
REC
PLAY
D2H
R7715 270
R7702 150
R7705 390
D7706 B3AAA0000752
D7701 B3AEA0000082
D7702 B3ADA00001
DUB
SD_I
VHS
Q7706 2SD0601A0L
Q7701 2SD0601A0L
Q7702 2SD0601A0L
R7716 100K
R7717 100K
100K R7718
100K R7719
TO POWER & DIGITAL I/F P.C.B. PP7702 K1KA06B00150
6 SST6V
5 GND
4 GND
3 KEY1
2 KEY2
1 KEY3
TO POWER & DIGITAL I/F P.C.B. PP7701 K1KA10B00196
10 GND
9 GND
8 HDD_LED
7 DVD_LED
6 DUB_LED
5 SD_LED
4 SD_SEL_LED
3 VHS_LED
2 IR
1 AD5V


OPEN/CLOSE
R7714
1500
S7707
R7713
3900
R7701
2700
R7707
2200
S7709
S7710
S7705
S7706
S7711
D2H
V2H
STOP
SELECT
D2V
S7701-S7711
EVQ11G07K
7705
90
R7706
390
R7708
680
R7709
470
7702
D7703
D7704
D7705
3ADA0000173
B3ACA0000273
B3ABA0000595
B3AEA0000069
IC7701
PNA4618M13VT
VHS
DVD
SD
HDD
Q7705
2SD0601A0L
Q7704
2SD0601A0L
Q7703
2SD0601A0L
7702
D0601A0L
R7710
220
C7701
0.1
R7721
100K
R7720
100K
100K
R7719

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
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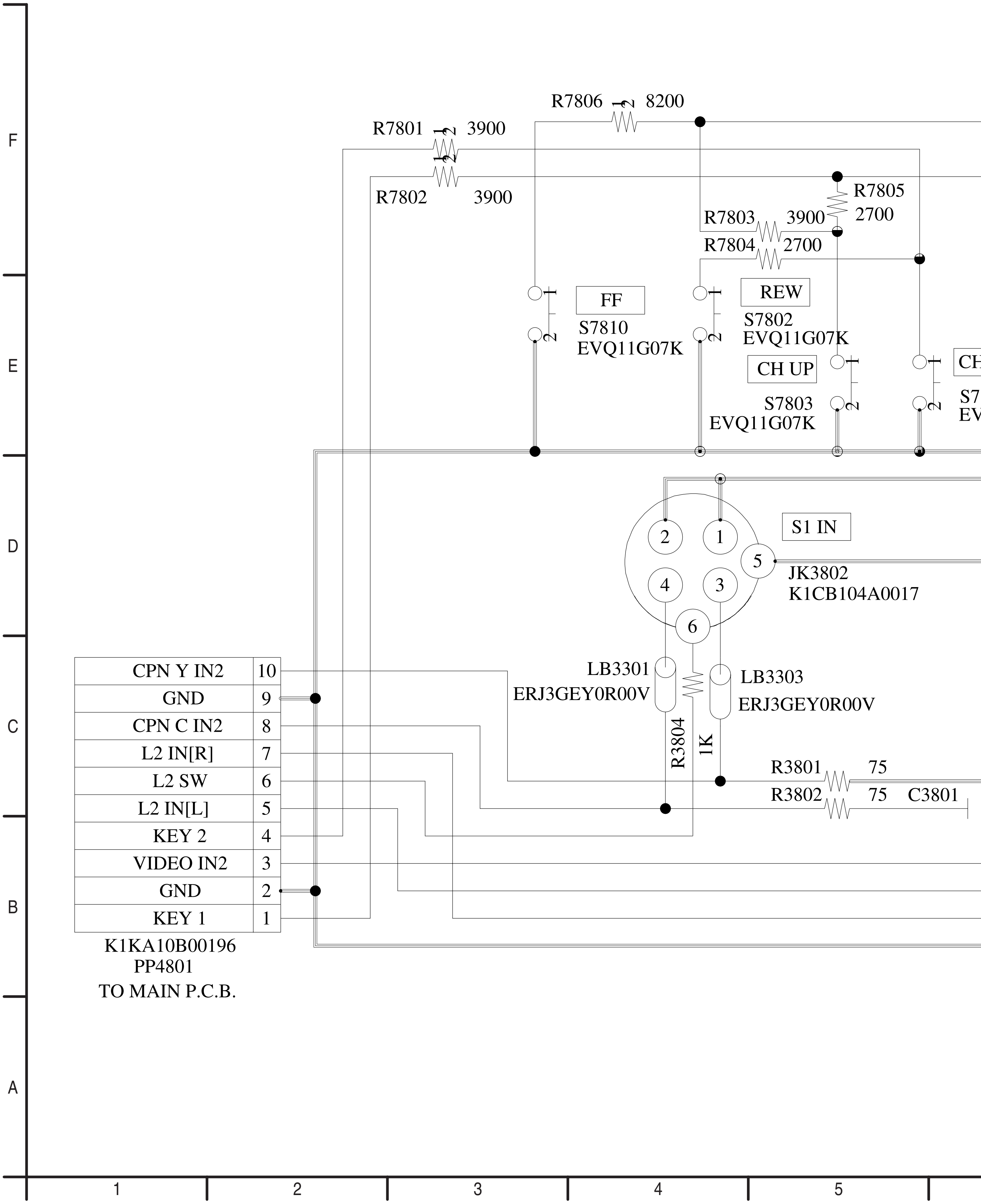
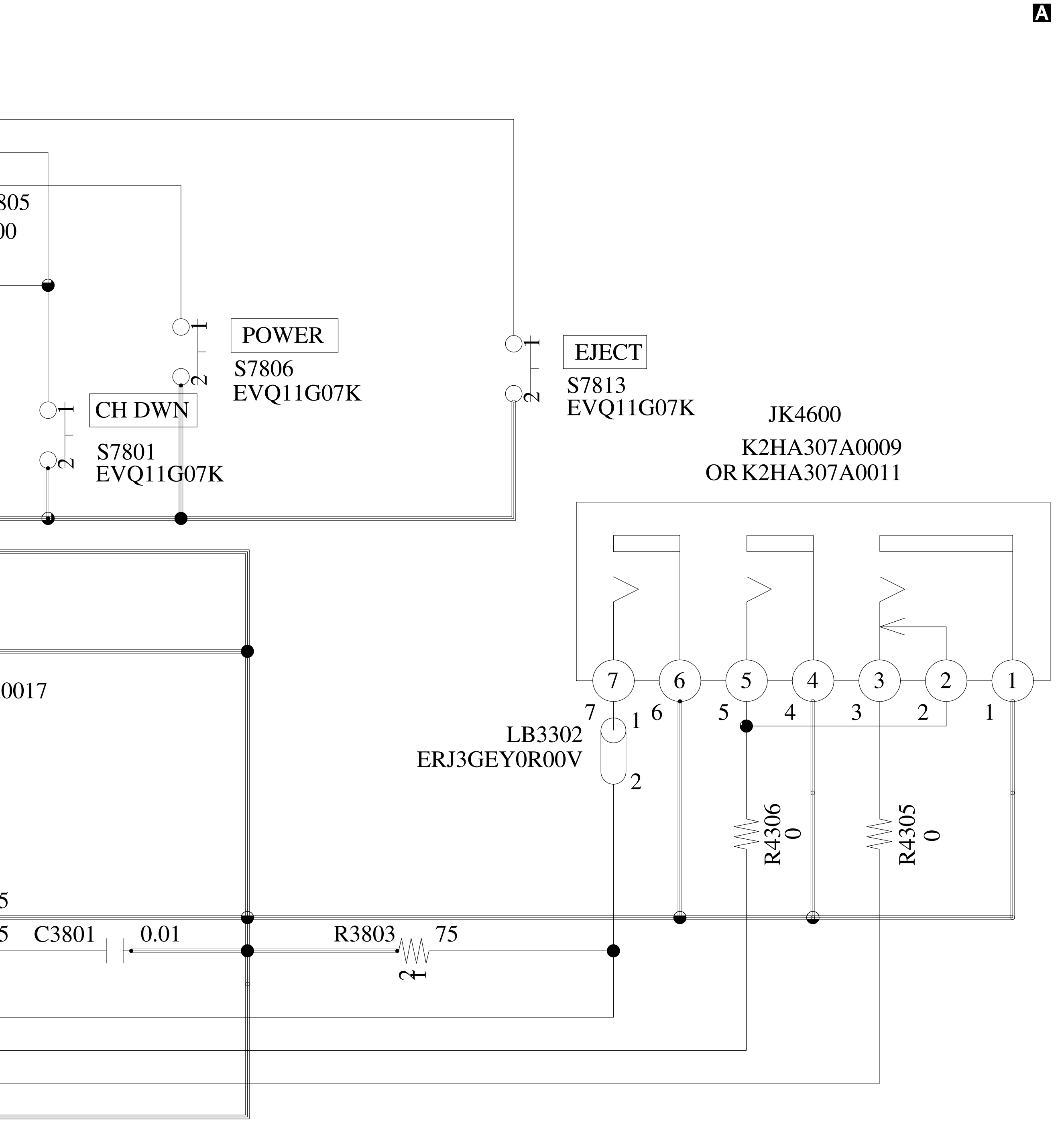
DMR-EH75VP
Front(R)
Schematic Diagram

6 7 8 9 10

13.23. Front Jack Schematic Diagram


F
E
D
C
B
A
1
2
3
4
5
R7806 8200
R7801 3900
R7802 3900
R7803 3900
R7804 2700
R7805 2700
FF
S7810
EVQ11G07K
REW
S7802
EVQ11G07K
CH UP
S7803
EVQ11G07K
S1 IN
JK3802
K1CB104A0017
LB3301
ERJ3GEY0R00V
LB3303
ERJ3GEY0R00V
R3804
1K
R3801 75
R3802 75
C3801
CPN Y IN2 10
GND 9
CPN C IN2 8
L2 IN[R] 7
L2 SW 6
L2 IN[L] 5
KEY 2 4
VIDEO IN2 3
GND 2
KEY 1 1
K1KA10B00196
PP4801
TO MAIN P.C.B.


A
805
00
POWER
S7806
EVQ11G07K
EJECT
S7813
EVQ11G07K
CH DWN
S7801
EVQ11G07K
JK4600
K2HA307A0009
OR K2HA307A0011
0017
LB3302
ERJ3GEY0R00V
R4306
0
R4305
0
C3801
0.01
R3803
75
5
5
1
2
3
4
5
6
7

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLYDIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-EH75VP
Front (L)
Schematic Diagram

6
7
8
9
10

Ref No.	IC11201									IC11301						IC11502				
MODE	1	2	3	4	5	6	7	9		1	2	3	4	5		1	2	3		
REC	-0.2	1.5	0	6.3	6.2	0	13.2	-735		2.2	2.2	0	12.9	-333		8.1	2.5	0		
PLAY	-0.2	1.5	0	6.3	6.2	0	13.2	-735		2.2	2.2	0	12.9	-333		8.1	2.5	0		
STOP	-0.2	1.5	0	6.3	6.2	0	13.2	-735		2.2	2.2	0	12.9	-333		8.1	2.5	0		
Ref No.	IC11601									IC11602						IC11701				
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3		
REC	12.6	4.5	1.2	1.2	1.2	0	8.4	12.6		-	0	0	5.0	4.3		4.4	2.5	0		
PLAY	12.6	4.5	1.2	1.2	1.2	0	8.4	12.6		-	0	0	5.0	4.3		4.4	2.5	0		
STOP	12.6	4.5	1.2	1.2	1.2	0	8.4	12.6		-	0	0	5.0	4.3		4.4	2.5	0		
Ref No.	IC11720									IC11801										
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	-15.3	-	-17.3	-18.6	-14.1	-	-	-14.1		12.4	4.5	1.2	1.2	1.2	0	7.7	12.4			
PLAY	-15.3	-	-17.3	-18.6	-14.1	-	-	-14.1		12.4	4.5	1.2	1.2	1.2	0	7.7	12.4			
STOP	-15.3	-	-17.3	-18.6	-14.1	-	-	-14.1		12.4	4.5	1.2	1.2	1.2	0	7.7	12.4			
Ref No.	IC31501						IC31503													
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8						
REC	5.9	0	4.1	5.9	5.0		3.3	-	1.3	0	4.7	-	-	3.8						
PLAY	5.9	0	4.1	5.9	5.0		3.3	-	1.3	0	4.7	-	-	3.8						
STOP	5.9	0	4.1	5.9	5.0		3.3	-	1.3	0	4.7	-	-	3.8						
Ref No.	IC37001									IC37501										
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	5.8	1.8	1.8	0	1.8	1.8	1.8	12.4		0	0	0	0	4.9	4.9	0.5	4.9			
PLAY	5.8	1.8	1.8	0	1.8	1.8	1.8	12.4		0	0	0	0	4.9	4.9	0.5	4.9			
STOP	5.8	1.8	1.8	0	1.8	1.8	1.8	12.4		0	0	0	0	4.9	4.9	0.5	4.9			
Ref No.	IC38001																			
MODE	1	2	3	4	5															
REC	0	0	-	4.9	5.0															
PLAY	0	0	-	4.9	5.0															
STOP	0	0	-	4.9	5.0															
Ref No.	IC38002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	-	-	-	-	5.0	4.9	0	5.0	2.3	2.4	0	-	-	-	4.2	-	-	-	-	-
PLAY	-	-	-	-	5.0	4.9	0	5.0	2.3	2.4	0	-	-	-	4.2	-	-	-	-	-
STOP	-	-	-	-	5.0	4.9	0	5.0	2.3	2.4	0	-	-	-	4.2	-	-	-	-	-
Ref No.	IC38002																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	0	-	-	-	-	0	0	0	-	-	0	4.9								
PLAY	0	-	-	-	-	0	0	0	-	-	0	4.9								
STOP	0	-	-	-	-	0	0	0	-	-	0	4.9								
Ref No.	IC45001																			
MODE	1	2	3	4	5															
REC	1.2	0	4.7	5.9	5.0															
PLAY	1.2	0	4.7	5.9	5.0															
STOP	1.2	0	4.7	5.9	5.0															
Ref No.	Q11101					Q11301					Q11601									
MODE	1	2	3	4		1	2	3	4		1	2	3	4	5	6	7	8		
REC	9.1	8.1	0	1.5		5.4	4.4	0	2.2		12.6	12.6	12.6	6.3	12.6	12.6	12.6	12.6		
PLAY	9.1	8.1	0	1.5		5.4	4.4	0	2.2		12.6	12.6	12.6	6.3	12.6	12.6	12.6	12.6		
STOP	9.1	8.1	0	1.5		5.4	4.4	0	2.2		12.6	12.6	12.6	6.3	12.6	12.6	12.6	12.6		
Ref No.	Q11602							Q11603												
MODE	1	2	3	4	5	6		1	2	3	4	5	6	7	8					
REC	3.7	3.6	8.3	12.5	3.7	3.7		5.0	5.0	5.0	0.4	5.0	5.0	5.0	5.0					
PLAY	3.7	3.6	8.3	12.5	3.7	3.7		5.0	5.0	5.0	0.4	5.0	5.0	5.0	5.0					
STOP	3.7	3.6	8.3	12.5	3.7	3.7		5.0	5.0	5.0	0.4	5.0	5.0	5.0	5.0					
Ref No.	Q11801							Q37001				Q37501				Q37502				
MODE	1	2	3	4	5	6		1	2	3		E	C	B		E	C	B		
REC	3.4	3.4	7.9	12.6	3.6	3.3		12.4	12.4	11.7		3.3	4.9	3.3		3.3	4.9	3.3		
PLAY	3.4	3.4	7.9	12.6	3.6	3.3		12.4	12.4	11.7		3.3	4.9	3.3		3.3	4.9	3.3		
STOP	3.4	3.4	7.9	12.6	3.6	3.3		12.4	12.4	11.7		3.3	4.9	3.3		3.3	4.9	3.3		
Ref No.	Q37503				Q37505				Q37506				Q37507							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
REC	3.3	4.9	3.3		3.3	4.9	3.3		3.3	4.9	3.3		3.3	4.9	3.3					
PLAY	3.3	4.9	3.3		3.3	4.9	3.3		3.3	4.9	3.3		3.3	4.9	3.3					
STOP	3.3	4.9	3.3		3.3	4.9	3.3		3.3	4.9	3.3		3.3	4.9	3.3					
Ref No.	Q38001				Q38002				Q38003				Q38004				Q38005			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	5.0	0		0	0	0		0	0	0.8		0	0	0.8		4.2	4.2	4.8	
PLAY	0	5.0	0		0	0	0		0	0	0.8		0	0	0.8		4.2	4.2	4.8	
STOP	0	5.0	0		0	0	0		0	0	0.8		0	0	0.8		4.2	4.2	4.8	
Ref No.	QR11601				QR11602				QR11603				QR11604							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
REC	0	0	4.8		0	0	4.7		0	4.5	0		0	0	4.8					
PLAY	0	0	4.8		0	0	4.7		0	4.5	0		0	0	4.8					
STOP	0	0	4.8		0	0	4.7		0	4.5	0		0	0	4.8					

Ref No.	IC7701																			
MODE	1	2	3																	
STOP	4.7	0	4.9																	
Ref No.	Q7701				Q7702				Q7703				Q7704				Q7705			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
STOP	0	0	0.6		0	4.5	0		0	0	0.8		0	4.3	0		0	4.4	0	
Ref No.	Q7706																			
MODE	E	C	B																	
STOP	0	4.7	0																	

Ref No.	IC56101																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	1.5	1.6	1.2	1.6	0	1.6	0	1.2	0	1.3	0	1.6	0	1.6	1.3	1.6	1.5	0	3.3
PLAY	0	1.5	1.6	1.2	1.6	0	1.6	0	1.2	0	1.3	0	1.6	0	1.6	1.3	1.6	1.5	0	3.3
STOP	0	1.5	1.6	1.2	1.6	0	1.6	0	1.2	0	1.3	0	1.6	0	1.6	1.3	1.6	1.5	0	3.3
Ref No.	IC56102																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0.7	1.5	1.2	1.0	0.9	1.2	0.7	1.7	0	1.6	0.7	1.1	0.9	0.9	1.5	1.1	0	0	3.3
PLAY	0	0.7	1.5	1.2	1.0	0.9	1.2	0.7	1.7	0	1.6	0.7	1.1	0.9	0.9	1.5	1.1	0	0	3.3
STOP	0	0.7	1.5	1.2	1.0	0.9	1.2	0.7	1.7	0	1.6	0.7	1.1	0.9	0.9	1.5	1.1	0	0	3.3
Ref No.	IC56103																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.6	1.2	0	0	1.2	0	1.6	0	0	0	1.5	0	3.3	3.2	3.2	0	3.3	1.5	3.3	0
PLAY	1.6	1.2	0	0	1.2	0	1.6	0	0	0	1.5	0	3.3	3.2	3.2	0	3.3	1.5	3.3	0
STOP	1.6	1.2	0	0	1.2	0	1.6	0	0	0	1.5	0	3.3	3.2	3.2	0	3.3	1.5	3.3	0
Ref No.	IC56103																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	3.3	0	0	0	0	0	0	3.2	1.5	0	0	-	-	0	0	0	-	0	0	0
PLAY	3.3	0	0	0	0	0	0	3.2	1.5	0	0	-	-	0	0	0	-	0	0	0
STOP	3.3	0	0	0	0	0	0	3.2	1.5	0	0	-	-	0	0	0	-	0	0	0
Ref No.	IC56103																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	0	3.3	0	3.3	3.3	3.3	1.5	0	3.3	3.3	1.5	1.5	3.3	3.3	0	3.3	0	-	-
PLAY	0	0	3.3	0	3.3	3.3	3.3	1.5	0	3.3	3.3	1.5	1.5	3.3	3.3	0	3.3	0	-	-
STOP	0	0	3.3	0	3.3	3.3	3.3	1.5	0	3.3	3.3	1.5	1.5	3.3	3.3	0	3.3	0	-	-
Ref No.	IC56103																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	3.3	-	-	3.3	0	3.3	1.2	1.2	0	3.3	0	0	0	3.3	0	0	0	3.3	0
PLAY	0	3.3	-	-	3.3	0	3.3	1.2	1.2	0	3.3	0	0	0	3.3	0	0	0	3.3	0
STOP	0	3.3	-	-	3.3	0	3.3	1.2	1.2	0	3.3	0	0	0	3.3	0	0	0	3.3	0
Ref No.	IC56103																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	0	0	-	-	-	3.3	-	-	-	0	1.5	-	-	-	3.3	-	-	-	0
PLAY	0	0	0	-	-	-	3.3	-	-	-	0	1.5	-	-	-	3.3	-	-	-	0
STOP	0	0	0	-	-	-	3.3	-	-	-	0	1.5	-	-	-	3.3	-	-	-	0
Ref No.	IC56103																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
REC	-	-	-	-	-	-	-	0	-	-	-	3.3	1.5	-	-	-	0	-	-	-
PLAY	-	-	-	-	-	-	-	0	-	-	-	3.3	1.5	-	-	-	0	-	-	-
STOP	-	-	-	-	-	-	-	0	-	-	-	3.3	1.5	-	-	-	0	-	-	-
Ref No.	IC56103																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
REC	3.3	-	-	-	0	-	0	0	0	0	1.5	0	1.5	0	0	0	0	3.3	0	0
PLAY	3.3	-	-	-	0	-	0	0	0	0	1.5	0	1.5	0	0	0	0	3.3	0	0
STOP	3.3	-	-	-	0	-	0	0	0	0	1.5	0	1.5	0	0	0	0	3.3	0	0
Ref No.	IC56103																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
REC	0	0	0	0	0	0	0	0	0	0	3.3	1.5	1.5	0.9	1.2	1.6	0	0.7	0.9	1.0
PLAY	0	0	0	0	0	0	0	0	0	0	3.3	1.5	1.5	0.9	1.2	1.6	0	0.7	0.9	1.0
STOP	0	0	0	0	0	0	0	0	0	0	3.3	1.5	1.5	0.9	1.2	1.6	0	0.7	0.9	1.0
Ref No.	IC56103																			
MODE	161	162	163	164																
REC	0.9	1.5	1.6	1.6																
PLAY	0.9	1.5	1.6	1.6																
STOP	0.9	1.5	1.6	1.6																
Ref No.	IC56104									IC56105						IC56107				
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3	4	5
REC	3.3	0	1.3	0	4.8	0	0	3.9		5.7	0	4.8	0	5.0		0	1.6	0	1.5	3.3
PLAY	3.3	0	1.3	0	4.8	0	0	3.9		5.7	0	4.8	0	5.0		0	1.6	0	1.5	3.3
STOP	3.3	0	1.3	0	4.8	0	0	3.9		5.7	0	4.8	0	5.0		0	1.6	0	1.5	3.3
Ref No.	Q56001				Q56002				Q56101				Q56102				Q56103			
MODE	E	C	B		E	C	B		E	C	B		1	2	3		1	2	3	
REC	0	4.9	0		0	0	0.6		0	3.7	0		3.3	5.0	3.3		3.3	5.0	3.3	
PLAY	0	4.9	0		0	0	0.6		0	3.7	0		3.3	5.0	3.3		3.3	5.0	3.3	
STOP	0	4.9	0		0	0	0.6		0	3.7	0		3.3	5.0	3.3		3.3	5.0	3.3	
Ref No.	QR56104				QR56105															
MODE	E	C	B		E	C	B													
REC	3.7	3.5	3.7		0	3.5	0													
PLAY	3.7	3.5	3.7		0	3.5	0													
STOP	3.7	3.5	3.7		0	3.5	0													

Ref No.	IC1511					IC1512					IC2001									
MODE	1	2	3	4		1	2	3	4		1	2	3	4						
REC	1.2	2.4	0.2	0		0	1.2	4.9	0		5.1	0	4.6	5.8						
PLAY	1.2	2.4	0.1	0		0	1.2	4.9	0		5.1	0	4.6	5.8						
STOP	1.2	2.4	0.2	0		0	1.2	4.9	0		5.1	0	4.6	5.8						
Ref No.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	12.2	0.1	0	0.1	0	0	16.1	0	2.8	1.6	1.6	0.6	1.5	2.4	2.5	2.5	2.5	1.3	5.0	3.8
PLAY	12.2	0.1	0	0.1	0	0	16.2	0	2.8	1.6	1.6	0.6	1.5	2.4	2.5	2.5	2.5	1.3	5.0	3.6
STOP	12.2	0.1	0	0.1	0	0	16.2	0	2.8	1.6	1.6	0.6	1.5	2.4	2.5	2.5	2.5	1.3	5.0	3.6
Ref No.	IC2501																			
MODE	21	22	23	24	25	26	27													
REC	12.2	3.8	3.8	0	3.8	0	0													
PLAY	12.2	3.6	3.6	0	3.6	0	0													
STOP	12.2	3.6	3.6	0	3.6	0	0													
Ref No.	IC3001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0	0	5.1	2.1	2.6	2.8	1.9	1.9	2.3	2.6	1.5	0	2.8	2.7	2.0	2.7	2.0	2.7	0
PLAY	0	0	0	5.1	2.1	2.6	2.8	1.9	1.9	2.3	2.6	1.5	0	2.8	2.7	2.0	2.7	2.0	2.7	0
STOP	0	0	0	5.1	2.1	2.6	2.8	1.9	1.9	2.3	2.6	1.5	0	2.8	2.7	2.0	2.7	2.0	2.7	0
Ref No.	IC3001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.7	5.0	2.3	0.1	0	2.9	0	0	2.4	2.8	0.4	2.2	2.0	1.7	3.0	2.3	3.0	2.1	1.4	2.1
PLAY	2.7	5.0	2.3	0.1	0	2.9	0	0	2.4	2.8	0.4	2.2	2.0	1.7	3.0	2.3	3.0	2.1	1.4	2.1
STOP	2.7	5.0	2.3	0	0	3.0	0	0	2.4	2.8	0.4	2.2	2.1	1.7	3.0	2.3	3.0	2.1	1.5	2.1
Ref No.	IC3001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	2.5	2.0	2.1	0	3.2	3.2	5.0	5.0	3.1	5.0	1.9	5.0	2.6	0	1.9	0	2.2	2.2	5.0	5.0
PLAY	2.5	2.0	2.1	0	3.2	3.2	5.0	5.0	3.1	5.0	1.9	5.0	2.6	0	1.9	0	2.2	2.2	5.0	5.0
STOP	2.5	2.0	2.1	0	3.2	3.2	5.0	5.0	0	5.0	1.9	**5.0**	2.6	0	1.9	0	2.2	2.2	5.0	5.0
Ref No.	IC3001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	4.0	2.3	2.2	2.4	2.2	2.4	2.2	1.2	2.0	2.7	0	5.0	0	2.4	2.8	2.2	2.8	0	0	2.6
PLAY	4.0	2.3	2.2	2.4	2.2	2.4	2.2	1.2	2.0	2.7	0	5.0	0	2.4	2.8	2.2	2.8	0	0	2.6
STOP	4.0	2.3	2.2	2.4	2.2	2.4	2.2	1.2	0	2.7	0	0	2.9	2.4	2.7	2.2	2.8	5.0	0	2.4
Ref No.	IC3001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0.7	0	3.2	4.9	2.4	2.3	2.4	0	0	0	0	5.1	0.5	2.6	2.5	2.5	0	2.3	0	2.6
PLAY	0.7	0	3.2	4.9	2.4	2.3	2.4	0	0	0	0	5.1	0.5	2.6	2.5	2.5	0	2.3	0	2.6
STOP	0.7	0	3.2	5.0	2.3	2.3	2.3	0	2.3	2.3	2.3	5.1	0.6	2.5	2.5	2.5	0	2.3	0	2.6
Ref No.	IC3002																			
MODE	1	2	3	4	5															
REC	5.7	4.6	5.1	2.7	0															
PLAY	5.7	4.6	5.1	2.7	0															
STOP	5.7	4.6	5.1	2.7	0															
Ref No.	IC3701																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.3	0	2.3	0	1.8	0	2.3	0	1.8	2.8	2.3	0	1.7	5.0	1.7	4.2	2.4	0	2.1	0
PLAY	2.3	0	2.3	0	1.8	0	2.3	0	1.8	2.8	2.3	0	1.7	5.0	1.7	4.2	2.4	0	2.1	0
STOP	2.3	0	2.3	0	1.8	0	2.3	0	1.8	2.8	2.3	0	1.7	5.0	1.7	4.2	2.4	0	2.1	0
Ref No.	IC3701																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.5	5.0	0.4	2.4	2.0	2.5	5.0	2.5	2.0	2.4	0	2.5	0	2.4	2.4	2.4	5.0	2.2	2.3	2.2
PLAY	2.5	5.0	0.4	2.4	2.0	2.5	5.0	2.5	2.0	2.4	0	2.5	0	2.4	2.4	2.4	5.0	2.2	2.3	2.2
STOP	2.5	5.0	0.4	2.4	2.0	2.5	5.0	2.5	2.0	2.4	0	2.5	0	2.4	2.4	2.4	5.0	2.2	2.3	2.2
Ref No.	IC3701																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	2.3	1.3	2.3	0	2.9	4.9	3.5	2.3	2.9	5.0	2.3	0	4.5	4.5	9.0	4.5	0.5	4.6	4.6	4.6
PLAY	2.3	1.3	2.3	0	2.9	4.9	3.5	2.3	2.9	5.0	2.3	0	4.5	4.5	9.0	4.5	0.5	4.6	4.6	4.6
STOP	2.3	1.3	2.3	0	2.9	4.9	3.5	2.3	2.9	5.0	2.3	0	4.5	4.5	9.0	4.5	0.5	4.6	4.6	4.6
Ref No.	IC3701																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5	0	4.5	0	4.5	5.0	4.5	5.0	4.5
PLAY	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5	0	4.5	0	4.5	5.0	4.5	5.0	4.5
STOP	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5	0	4.5	0	4.5	5.0	4.5	5.0	4.5
Ref No.	IC3702							IC3703												
MODE	1	2	3	4	5	6		1	2	3	4	5	6							
REC	4.8	1.2	5.0	1.9	0	1.9		4.1	2.1	5.0	2.8	0	2.9							
PLAY	4.8	1.2	5.0	1.9	0	1.9		4.1	2.1	5.0	2.8	0	2.9							
STOP	4.8	1.2	5.0	1.9	0	1.9		4.1	2.1	5.0	2.8	0	2.9							
Ref No.	IC3705									IC3707										
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	1.4	4.7	1.4	4.1	2.9	5.0	2.2	0		1.4	4.7	1.4	4.6	2.9	5.0	2.2	0			
PLAY	1.4	4.7	1.4	4.1	2.9	5.0	2.2	0		1.4	4.7	1.4	4.6	2.9	5.0	2.2	0			
STOP	1.4	4.7	1.4	4.1	2.9	5.0	2.2	0		1.4	4.7	1.4	4.6	2.9	5.0	2.2	0			
Ref No.	IC4501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.3	0	2.3	0	0	2.5	2.1	0	0	0	0	2.1	0	0	0	2.7	0.6	2.6	2.6	2.1
PLAY	2.3	0	2.3	0	0	2.5	2.1	0	0	0	0	2.1	0	0	0	2.7	0.6	2.6	2.6	2.1
STOP	2.3	0	2.3	0	0	2.5	2.1	0	0	0	0	2.1	0	0	0	2.7	0.6	2.6	2.6	2.1
Ref No.	IC4501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	2.0	2.1	0	2.1	5.1	2.1	0	4.3	3.9	3.7	1.1	2.5	2.6	0.8	2.6	0	2.0	0	0	5.1
PLAY	2.0	2.1	0	2.1	5.1	2.1	0	4.3	3.9	3.7	1.1	2.5	2.6	0.8	2.6	0	2.0	0	0	5.1
STOP	2.1	2.1	0	2.1	5.1	2.1	0	4.3	1.8	1.8	0	2.6	2.6	0.8	2.6	0	2.0	0	0	5.1

Ref No.	IC4501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	2.9	2.4	3.3	1.6	2.5	2.5	2.5	3.6	2.5	5.1	0.1	5.9	0	0	0	5.9	12.1	6.0	0
PLAY	0	2.9	2.4	3.3	1.6	2.5	2.5	2.5	3.6	2.5	5.1	0.1	5.9	0	0	0	5.9	12.1	6.0	0
STOP	0	2.9	2.4	3.3	1.6	2.5	1.6	2.5	3.6	2.5	5.1	0.1	6.0	0	0	0	6.0	12.1	6.1	0
Ref No.	IC4501																			
MODE	61	62	63	64																
REC	2.5	2.4	2.5	2.5																
PLAY	2.5	2.4	2.5	2.5																
STOP	2.6	2.4	2.5	2.5																
Ref No.	IC4801																			
MODE	1	2	3	4	5															
REC	4.6	0	1.2	8.9	12.2															
PLAY	4.6	0	1.2	8.9	12.2															
STOP	4.6	0	1.2	8.9	12.2															
Ref No.	IC4802																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	5.9	6.0	5.9	6.0	5.9	0	0	0	12.1	12.1	6.0	5.9	5.9	6.0	6.0	12.1				
PLAY	5.9	6.0	5.9	6.0	5.9	0	0	0	12.1	12.1	6.0	5.9	5.9	6.0	6.0	12.1				
STOP	5.9	6.0	5.9	6.0	5.9	0	0	0	12.1	12.1	6.0	5.9	5.9	6.0	6.0	12.1				
Ref No.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0	0	0	4.9	4.9	4.8	4.6	3.2	0	4.7	4.9	0	4.9	3.8	0	4.8	0	0	4.8
PLAY	0	0	0	0	4.9	4.9	4.8	4.6	3.2	0	0	0	0	4.9	3.8	0	4.8	2.4	0	4.8
STOP	4.8	0	0	0	4.9	4.9	4.8	4.6	3.3	0	0	0	0	4.9	3.8	0	4.8	2.4	0	0
Ref No.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	4.9	0	4.3	2.0	0	4.8	0	0	4.9	0	4.8	4.8	0	4.9	1.5	1.3	4.9	-	-	0
PLAY	4.9	0	4.3	2.0	0	4.8	0	0	4.9	0	4.8	4.8	0	4.9	1.5	1.3	4.9	-	-	0
STOP	4.9	0	4.3	2.0	0	0	0	0	4.9	0	4.8	4.8	0	4.9	1.5	1.3	4.9	-	-	0
Ref No.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	0	0	4.7	4.7	0	1.4	2.1	0	1.7	5.0	1.7	5.1	2.1	1.7	2.0	0	0	0	0
PLAY	0	0	0	4.7	4.7	0	1.4	2.1	0	1.7	5.0	1.7	5.1	2.1	1.7	2.0	0	0	0	0
STOP	0	0	0	4.7	4.7	0	0	2.1	0	1.7	5.0	1.7	5.1	2.1	2.2	2.0	0	0	0	0
Ref No.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	0	0	0	0	0	0	4.0	2.2	4.2	4.2	4.1	0.1	0	4.6	2.5	2.4	4.8	4.8	4.5
PLAY	0	0	0	0	0	0	0	4.0	2.2	4.2	4.2	4.1	0.1	0	4.6	2.5	2.4	4-8	4.8	0.2
STOP	0	0	0	0	0	0	0	4.0	2.2	4.2	4.2	4.1	0.1	0	4.6	0	2.4	4.8	5.0	0.2
Ref No.	IC6001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	0	0	0	0	2.5	2.5	0	0	1.3	2.5	2.5	0	2.3	2.8	2.5	2.5	5.1	4.9	0
PLAY	0	0	0	0	0	2.5	2.5	0	0	1.3	2.5	2.5	0	2.3	2.8	2.5	2.5	5.1	4.9	0
STOP	0	0	0	0	0	2.6	2.6	0	0	1.3	2.5	2.5	0	2.5	2.5	2.5	2.5	5.1	4.9	0
Ref No.	IC6002						IC6301													
MODE	1	2	3	4	5		1	2	3	4										
REC	4.9	4.9	0	-	-		5.0	0	4.6	5.7										
PLAY	4.9	4.9	0	-	-		5.0	0	4.6	5.7										
STOP	4.9	4.9	0	-	-		5.0	0	4.6	5.7										
Ref No.	IC7301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	-	0.6	2.7	0.5	2.4	2.4	4.5	0	2.5	2.5	0	0	2.8	2.7	2.2	-	3.4	3.4	5.0	-
PLAY	-	0.6	2.7	0.7	2.4	2.4	4.5	0	2.5	2.5	0	0	2.8	2.7	2.2	-	3.4	3.4	5.0	-
STOP	-	0.6	2.7	0.7	2.4	2.4	4.5	0	2.5	2.5	0	0	2.8	2.7	2.2	-	3.4	3.4	5.0	-
Ref No.	IC7301																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	2.2	3.4	2.2	5.0	-	1.7	5.0	1.7	2.2	2.2	-	2.2								
PLAY	2.2	3.4	2.2	5.0	-	1.7	5.0	1.7	2.2	2.2	-	2.2								
STOP	2.2	3.4	2.2	5.0	-	1.7	5.0	1.7	2.2	2.2	-	2.2								
Ref No.	IC7402																			
MODE	1	2	3	4	5	6	7	8												
REC	5.0	-	0	3.2	4.9	-	-	5.7												
PLAY	5.0	-	0	3.2	4.9	-	-	5.7												
STOP	5.0	-	0	3.2	4.9	-	-	5.7												
Ref No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.8	4.8	0	4.8	4.8	4.8	4.7	4.8	4.8	-	-	0	2.1	2.3	0	4.8	4.8	4.8	4.0	0
PLAY	4.8	4.8	0	4.8	4.8	4.8	4.7	4.8	4.8	-	-	0	2.1	2.3	0	4.8	4.8	4.8	4.0	0
STOP	4.8	4.8	0	4.8	4.8	4.8	4.7	4.8	4.8	-	-	0	2.1	2.3	0	4.8	4.8	4.8	4.0	0
Ref No.	IC7501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0.4	4.6	4.7	4.9	4.8	4.8	4.8	0.5	4.8	3.7	3.8	4.1	3.2	4.8	4.8	4.8	0	0	4.8	-26.8
PLAY	0.4	4.6	4.7	4.9	4.8	4.8	4.8	0.5	4.8	3.7	3.8	4.1	3.2	4.8	4.8	4.8	0	0	4.8	-26.8
STOP	0.4	4.6	4.7	4.9	4.8	4.8	4.8	0.5	4.8	3.7	3.8	4.1	3.2	4.8	4.8	4.8	0	0	4.8	-26.8
Ref No.	IC7501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	-26.8	-22.5	-22.7	-22.7	-22.5	-22.5	-22.5	-22.5	-22.5	-18.3	-14.1	-26.6	-26.6	-26.6	-14.1	-14.2	-14.2	-22.4	-14.2	-18.3
PLAY	-26.8	-22.5	-22.7	-22.7	-22.5	-22.5	-22.5	-22.5	-22.5	-18.3	-14.1	-26.6	-26.6	-26.6	-14.1	-14.2	-14.2	-22.4	-14.2	-18.3
STOP	-26.8	-22.5	-22.7	-22.7	-22.5	-22.5	-22.5	-22.5	-22.5	-18.3	-14.1	-26.6	-26.6	-26.6	-14.1	-14.2	-14.2	-22.4	-14.2	-18.3
Ref No.	IC7501																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	-26.5	-26.5	-26.7	-14.6	-26.8	0	4.7	0	0	4.8	4.8	4.8	0	0	0	0	0	0	0	0
PLAY	-26.5	-26.5	-26.7	-14.6	-26.8	0	4.7	0	0	4.8	4.8	4.8	0	0	0	0	0	0	0	0
STOP	-26.5	-26.5	-26.7	-14.6	-26.8	0	4.7	0	0	4.8	4.8	4.8	0	0	0	0	0	0	0	0

Ref No.	IC7501																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	0	4.3	0	0	2.6	0	2.3	0	-26.9	0	0	0	2.6	0	0	4.8	4.8	0	4.6
PLAY	0	0	4.3	0	0	2.6	0	2.3	0	-26.9	0	0	0	2.6	0	0	4.8	4.8	0	4.6
STOP	0	0	4.3	0	0	2.6	0	2.3	0	-26.9	0	0	0	2.6	0	0	4.8	4.8	0	4.6
Ref No.	Q1501			Q1502			Q3001				Q3004				Q4001					
MODE	E	C		E	C		E	C	B		E	C	B		E	C	B			
REC	0	4.6		0	4.9		1.6	5.0	2.2		1.7	5.1	3.4		-19.4	10.4	-28.1			
PLAY	0	4.7		0	4.9		1.6	5.0	2.2		1.7	5.1	3.4		0	0	0.7			
STOP	0	4.7		0	4.9		1.6	5.0	2.2		1.7	5.1	3.4		0	0	0.7			
Ref No.	Q4002				Q4082				Q4084				Q4501				Q4502			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	-19.4	0	-28.1		0	5.1	-0.6		5.7	5.6	4.9		12.4	12.3	11.7		5.1	5.7	5.8	
PLAY	0	0	0.7		0	0.3	0.3		5.7	0.4	5.7		12.4	12.3	11.7		5.1	5.7	5.8	
STOP	0	0	0.7		0	0.3	0.3		5.7	0.4	5.7		12.4	12.3	11.7		5.1	5.7	5.8	
Ref No.	Q7401				Q7402				Q7501				Q7502							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
REC	2.4	0	1.7		0	0.1	0.6		-14.9	-14.8	-14.1		-22.8	4.8	-22.5					
PLAY	2.4	0	1.7		0	0.1	0.6		-14.9	-14.8	-14.1		-22.8	4.8	-22.5					
STOP	2.4	0	1.7		0	0.1	0.6		-14.9	-14.8	-14.1		-22.8	4.8	-22.5					
Ref No.	QR3701				QR4001				QR4082											
MODE	E	C	B		E	C	B		E	C	B									
REC	0	4.1	0		5.1	-28.1	4.8		0	0.1	4.8									
PLAY	0	4.1	0		5.1	5.0	0		0	5.7	0									
STOP	0	4.1	0		5.1	5.0	0		0	5.7	0									
Ref No.	QR4501				QR4801															
MODE	E	C	B		1	2	3	4	5											
REC	0	0	4.6		0	0	1.8	0	4.6											
PLAY	0	0	4.6		0	0	1.8	0	4.6											
STOP	0	0	4.6		0	0	1.8	0	4.6											
Ref No.	QR4802						QR4803						QR4804							
MODE	1	2	3	4	5		1	2	3	4	5		E	C	B					
REC	0	0	-0.5	0	-0.5		5.8	5.8	0	0	0		5.8	-0.5	5.8					
PLAY	0	0	-0.5	0	-0.5		5.8	5.8	0	0	0		5.8	-0.5	5.8					
STOP	0	0	-0.5	0	-0.5		5.8	5.8	0	0	0		5.8	-0.5	5.8					
Ref No.	QR4805						QR4806						QR4807							
MODE	1	2	3	4	5		1	2	3	4	5		E	C	B					
REC	0	0	-0.5	0	-0.5		0	0	-0.1	0	-0.6		4.8	4.7	0					
PLAY	0	0	-0.5	0	-0.5		0	0	-0.1	0	-0.6		4.8	4.7	0					
STOP	0	0	-0.5	0	-0.5		0	0	-0.1	0	-0.6		4.8	4.7	0					
Ref No.	QR4808						QR4809				QR4810				QR4813					
MODE	1	2	3	4	5		E	C	B		E	C	B		E	C	B			
REC	0	0	4.7	0	4.7		0.1	-0.6	0		0	12.0	0		5.8	-0.5	5.8			
PLAY	0	0	4.7	0	4.7		0.1	-0.6	0		0	12.0	0		5.8	-0.5	5.8			
STOP	0	0	4.7	0	4.7		0.1	-0.6	0		0	12.0	0		5.8	-0.5	5.8			
Ref No.	QR4814						QR7401				QR7502									
MODE	1	2	3	4	5		E	C	B		E	C	B							
REC	0	0	-0.5	0	-0.5		36.3	36.3	0.1		4.9	4.8	0							
PLAY	0	0	-0.5	0	-0.5		36.3	36.3	0.1		4.9	4.8	0							
STOP	0	0	-0.5	0	-0.5		36.3	36.3	0.1		4.9	4.8	0							

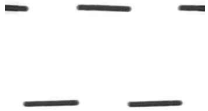
Ref No.	P59001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0	0	0	0	0	0	0	0	0	0	0	3.3	12.3	4.9	12.3	3.3	0	4.9	0
PLAY	0	0	0	0	0	0	0	0	0	0	0	0	3.3	12.3	4.9	12.3	3.3	0	4.9	0
STOP	0	0	0	0	0	0	0	0	0	0	0	0	3.3	12.3	4.9	12.3	3.3	0	4.9	0

Ref No.	P59001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	3.3	5.1	3.3	5.1	5.0	3.3	2.3	3.1	2.5	4.9	2.5	3.3	0	3.3	0	3.3	0	3.3	2.5	-
PLAY	3.3	5.1	3.3	5.1	5.0	3.3	2.3	3.1	2.5	4.9	2.5	3.3	0	3.3	0	3.3	0	3.3	2.5	-
STOP	3.3	5.1	3.3	5.1	5.0	3.3	2.3	3.2	2.5	4.9	2.5	3.3	0	3.3	0	3.3	0	3.3	2.5	-

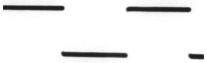
Ref No.	P59001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	2.5	3.3	0	1.7	0	0	0	3.3	0	3.3	1.1	0	0	-	1.5	3.3	0	0	1.0	4.1
PLAY	2.5	3.3	0	1.7	0	0	0	3.3	0	3.3	1.1	0	0	-	1.5	3.3	0	0	1.0	4.1
STOP	2.5	3.3	0	1.7	0	0	0	3.3	0	3.3	1.1	0	0	-	1.5	3.3	0	0	1.0	4.1

Ref No.	P59001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	4.1	1.1	12.3	0	12.3	1.0	12.3	0	12.3	1.3	12.3	0	12.3	2.1	5.0	0	0	-	2.1
PLAY	0	4.1	1.1	12.3	0	12.3	1.0	12.3	0	12.3	1.3	12.3	0	12.3	2.1	5.0	0	0	-	2.1
STOP	0	4.1	1.1	12.3	0	12.3	1.0	12.3	0	12.3	1.3	12.3	0	12.3	2.1	5.0	0	0	-	2.1

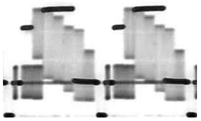
Ref No.	P59001																			
MODE	81	82	83	84	85	86	87	88												
REC	0	0	0	0	0	0	0	0												
PLAY	0	0	0	0	0	0	0	0												
STOP	0	0	0	0	0	0	0	0												



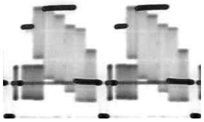
IC6001-18(TW2001) REC
5.0Vp-p (10msec.div.)



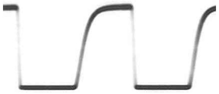
IC6001-19 PLAY
5.0Vp-p (5msec.div.)



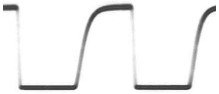
IC6001-50 REC/PLAY
2.2Vp-p (20usec.div.)



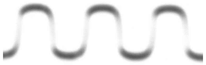
IC6001-52 REC/PLAY
2.2Vp-p (20usec.div.)



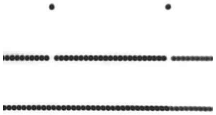
IC6001-79 FF/REW
5.0Vp-p (1msec.div.)



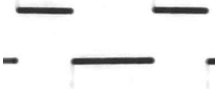
IC6001-80 FF/REW
5.0Vp-p (1msec.div.)



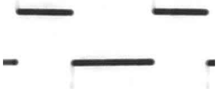
IC6001-86(TL2015) PLAY
0.7Vp-p (0.5msec.div.)



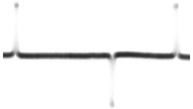
IC6001-90 REC
5.0Vp-p (10msec.div.)



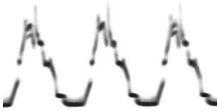
IC6001-94 REC
2.4Vp-p (10msec.div.)



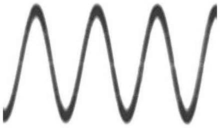
IC6001-95 REC
2.4Vp-p (10msec.div.)



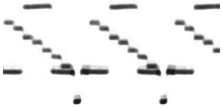
IC6001-97(TW2002) PLAY
4.4Vp-p (5msec.div.)



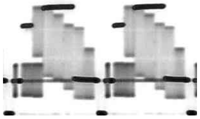
IC2501-22,23,25 PLAY
8.0Vp-p (2msec.div.)



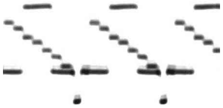
IC3001-6 REC/PLAY
0.9Vp-p (2msec.div.)



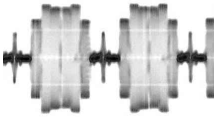
IC3001-19 REC
1.0Vp-p (20usec.div.)



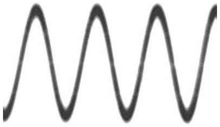
IC3001-29 REC/PLAY
2.4Vp-p (20usec.div.)



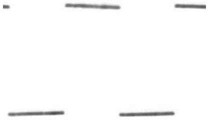
IC3001-36 PLAY
0.5Vp-p (20usec.div.)



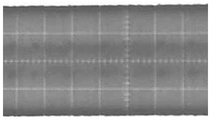
IC3001-57 REC/PLAY
0.2Vp-p (20usec.div.)



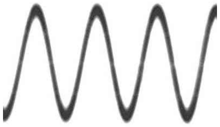
IC3001-67 PLAY
0.5Vp-p (0.5usec.div.)



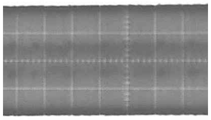
IC3001-80 REC/PLAY
0.5Vp-p (10msec.div.)



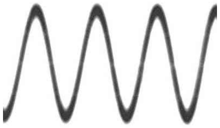
IC3001-86 REC
1.4Vp-p (20usec.div.)



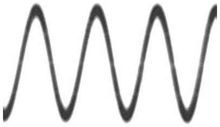
IC3001-98 REC
1.5Vp-p (1msec.div.)



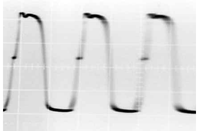
IC4501-21(TW4501) REC
1.1Vp-p (20usec.div.)

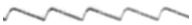


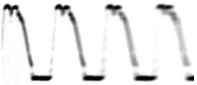
IC4501-53 REC/PLAY
1.6Vp-p (0.5msec.div.)

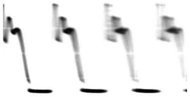


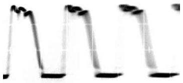
IC4501-57 REC/PLAY
1.6Vp-p (0.5msec.div.)

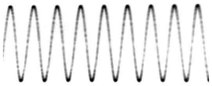

IC11201-9 STOP
280Vp-p (20usec.div)

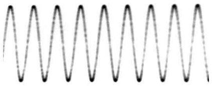

T11101-1 STOP
10Vp-p (50msec.div)

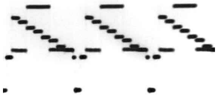

T11101-4 STOP
30Vp-p (50usec.div)

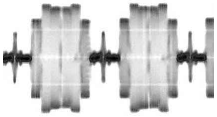

T11301-6 STOP
300Vp-p (0.1msec.div)

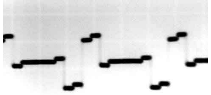

T11301-8 STOP
25Vp-p (50usec.div)

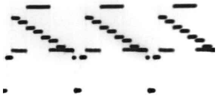

P59001-29,31 REC/PLAY
0.8Vp-p (1msec.div)

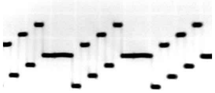

P59001-39,41 REC/PLAY
1.0Vp-p (1msec.div)

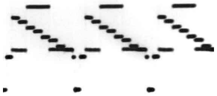

P59001-51 REC/PLAY
1.0Vp-p (20usec.div.)

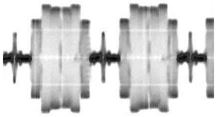

P59001-55 REC/PLAY
0.8Vp-p (20usec.div.)

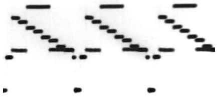

P59001-59 REC/PLAY
0.6Vp-p (20usec.div)

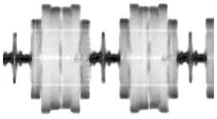

P59001-63 REC/PLAY
1.0Vp-p (20usec.div.)

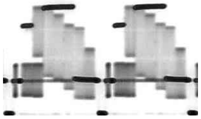

P59001-67 REC/PLAY
0.6Vp-p (20usec.div.)

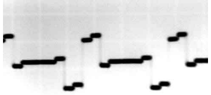

P59001-71 REC/PLAY
1.0Vp-p (20usec.div.)

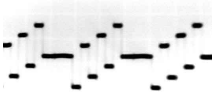

P59001-75 REC/PLAY
0.8Vp-p (20usec.div)

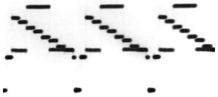

JK3902-3 REC/PLAY
2.0Vp-p (20usec.div)


JK3902-4 REC/PLAY
1.5Vp-p (20usec.div)


JK3902-16 REC/PLAY
2.0Vp-p (20usec.div)


JK4801-18 REC/PLAY
1.2Vp-p (20usec.div)


JK4801-19 REC/PLAY
1.2Vp-p (20usec.div)


JK4801-20 REC/PLAY
2.0Vp-p (20usec.div)

443NT [L]	4.43 NTSC Ⓛ
A. COMP	AUDIO COMPONENT SIGNAL
A. COMPO	AUDIO COMPONENT SIGNAL
A. D.P [L]	AUDIO DUBBING PAUSE Ⓛ
A. D/L [L]	AUDIO DUBBING PAUSE Ⓛ
A. DEF [S]	AUDIO DEFEAT
A. DEF [S] [L]	AUDIO DEFEAT
A. DUB P [L]	AUDIO DUBBING PAUSE Ⓛ
A. DUB [H]	AUDIO DUBBING Ⓗ
A. ERASE	AUDIO ERASE
A. H. SW	AUDIO HEAD SWITCHING PULSE
A. HEAD [R]	AUDIO HEAD (REC)
A. HEAD [W]	AUDIO HEAD (PLAY)
A. IN [L]	AUDIO INPUT (L)
A. IN [R]	AUDIO INPUT (R)
A. MUT [H]	AUDIO MUTE Ⓗ
A. MUTE [H]	AUDIO MUTE Ⓗ
A. OUT [L]	AUDIO OUTPUT (L)
A. OUT [R]	AUDIO OUTPUT (R)
A. RF OUT	AUDIO RF SIGNAL OUTPUT
A/VS/S. DATA	AV SW/SERIAL DATA
AC ONLINE	AC ONLINE
AC. O/EE. H	AC ONLINE/EE Ⓗ
AFC S C	AFC S CURVE
AFC [S]	AFC S CURVE
AFC. DEF	AFC DEFEAT
ARFC OUT	AUDIO RF SIGNAL OUTPUT
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL
ART. V. MM	ARTIFICIAL VERTICAL SYNC SIGNAL MONO MULTI
ART. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL Ⓗ/NORMAL
AT. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE
AUDIO IN [L]	AUDIO INPUT (L)
AUDIO IN [R]	AUDIO INPUT (R)
AUDIO OUT [L]	AUDIO OUTPUT (L)
AUDIO OUT [R]	AUDIO OUTPUT (R)
AUDIO SELECT [H]	AUDIO SELECT Ⓗ
AUDIO. L	AUDIO (L)
AUDIO. R	AUDIO (R)
AV CNT	AV CONTROL
AV CTL	AV CONTROL
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK
AV. C.M.	AV CONTROL MODE
AVCNT/METER. R	AV CONTROL/LEVEL METER (R)
AVSW/METER. L	AV SW/LEVEL METER (L)
B MODE. H	B MODE Ⓗ
B.G.P	BURST GATE PULSE
BACKUP 5V	BACK UP 5V
BAND. U.E.	BAND U
BANDVL. D	BAND VL
BI/MI [L]	BILINGUAL/MIX Ⓛ
BIL	BILINGUAL
BIL [L]	BILINGUAL Ⓛ
BIL. [H]	BILINGUAL Ⓗ
BIL/M1 [L]	BILINGUAL Ⓛ
BS CLOCK	BS CLOCK
BS DATA	BS DATA
BS LCH IN	BS L CHANNEL INPUT
BS MIX [H]	BS MIX Ⓗ
BS MON [H]	BS MONITOR Ⓗ
BS MONI [H]	BS MONITOR Ⓗ
BS RCH IN	BS R CHANNEL INPUT
BS VIDEO	BS VIDEO SIGNAL
BS VIDEO/BS1	BS VIDEO SIGNAL
BS [H]	BS Ⓗ
BS. LEVEL	BS LEVEL
BS. M [H]	BS MONITOR Ⓗ
BS/VTR [H]	BS/VTR Ⓗ
BUS CLK	BUS CLOCK
BUS LSN	BUS LISTEN
BUS TLK	BUS TALK
BUZZER	BUZZER
CAP EC	CAPSTAN TORQUE CONTROL
CAP M GND	CAPSTAN MOTOR GND
CAP. ET	CAPSTAN TORQUE CONTROL
CAP. FG1	CAPSTAN FG1 PULSE
CAP. FG2	CAPSTAN FG2 PULSE
CAS. SW	CASSETTE SW
CCN	PLAYBACK CONTROL SIGNAL (–)
CCP	PLAYBACK CONTROL SIGNAL (+)
CHM	CONTROL SIGNAL (+)
CHP	CONTROL SIGNAL (–)
CINEM [L]	CINEMA Ⓛ
CINEMA [L]	CINEMA Ⓛ
CINEMA/MIX	CINEMA/MIX
CKL	RATCH LOCK
CKS	SHIFT LOCK
CL	CLOCK
CLK	CLOCK
CLK (C.G)	CLOCK
CLOCK. IN	CLOCK INPUT
CLP	CLAMP
COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
COLOR [H]	COLOUR Ⓗ
CONV	CONVERTOR
CS	CHIP SELECT
CTL GND	CONTROL GND
CTL HEAD [+]	CONTROL HEAD (+)
CTL HEAD [–]	CONTROL HEAD (–)
CTL [+]	CONTROL HEAD (+)
CTL [–]	CONTROL HEAD (–)
CUE BIAS	CUE BIAS
CURRENT LIM	CURRENT LIMMITER
CYL ET	CYLINDER TORQUE CONTROL

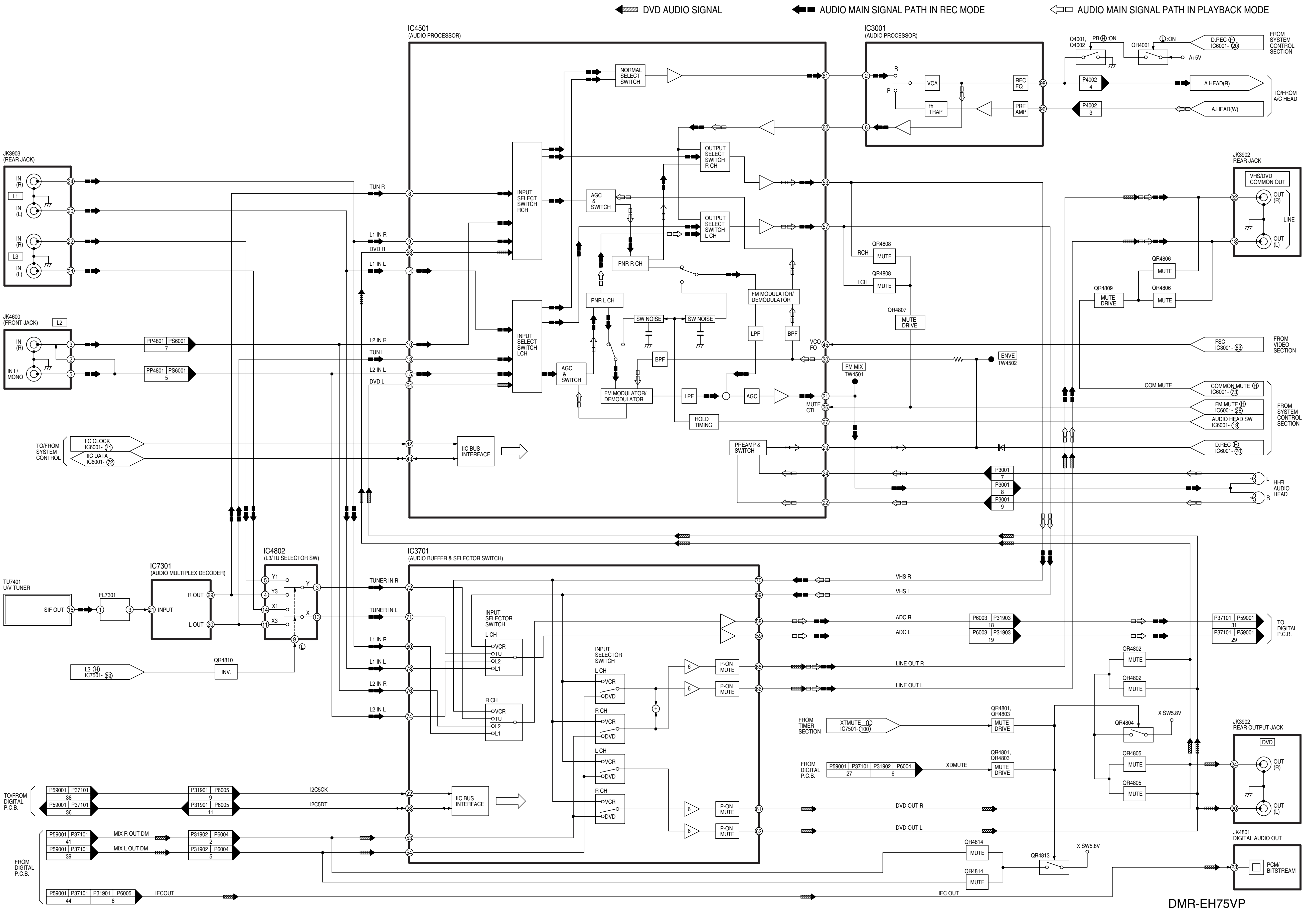
CYL GND	CYLINDER GND
D.F.M. REC [H]	DELAIED FM RECORDING Ⓗ
D. FM REC [L]	DELAIED FM RECORDING Ⓛ
D. GND	DIGITAL GND
D. REC [H]	DELAYED RECORDING Ⓗ
D4/S. LED	D4/STILL LED
D4/STILLED	D4/STILL LED
DAC [CLK]	TUNER DAC (CLOCK)
DAC/FSCS	TUNER DAC/FS CHIP SELECT
DAREC [H]	DELAYED AUDIO RECORDING Ⓗ
DATA	DATA
DECODER [L]	DECODER (L)
DECODER [R]	DECODER (R)
DEW	DEW
DEW SNS	DEW SENSOR
DFMRE [H]	DELAYED FM AUDIO RECORDING Ⓗ
E. REC 5V	EXCEPT RECORDING 5V
EC	ERROR TORQUE CONTROL
ECR	ERROR TORQUE CONTROL REFERENCE VOLTAGE
EDT TRIG [L]	EDIT TRIGGER Ⓛ
EDIT [H]	EDIT Ⓗ
EE [H]	EE Ⓗ
EE [H]/INS [M]	EE Ⓗ/INSERT Ⓜ
EE. VV. TR	EE/VV/TRICK PLAY
EJECT. PO	EJECT POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK
ENV. SEL	ENVELOPE SELECT
ENVE. OUT	ENVELOPE OUTPUT
ENVE. SEL	ENVELOPE SELECT
ENV SELECT	ENVELOPE SELECT
EP [H]	LP Ⓗ
EP/LP [H]	LP Ⓗ
EP/LP/SP	LP/SP
EP/SS [H]	LP/SLOW/STILL/STOP Ⓗ
EPROMCS	EPROM CHIP SELECT
EX. REC 5V	EXCEPT RECORDING 5V
FF/REW [L]	FIRST FORWARD/REWIND Ⓛ
FG1 IN	FG1 PULSE INPUT
FG2 IN	FG2 PULSE INPUT
FILTER ADJUSTMENT	FILTER ADJUSTMENT
FLY ERASE [H]	FLYING ERASE HEAD ON Ⓗ
FLY ON [H]	FLYING ERASE HEAD ON Ⓗ
FLY. E [H]	FLYING ERASE HEAD ON Ⓗ
FM MUT [H]	FM AUDIO MUTE Ⓗ
FM MUTE [H]	FM AUDIO MUTE Ⓗ
FM OUT [L]	FM OUTPUT (L)
FM OUT [R]	FM OUTPUT (R)
FM PACK OUT [L]	FM PACK OUTPUT (L)
FM PACK OUT [R]	FM PACK OUTPUT (R)
FM/BS SEL [L]	FM/BS SELECT (L)
FM/BS SEL [R]	FM/BS SELECT (R)
FS. CLK	FS CLOCK
FUL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E. 12V	FULL ERASE 12V
GND [A]	GND (ANALOG)
GND [TU]	GND (TUNER)
GND/N. SW. 12V	GND/NON SW 12V
H. SYNC	HORIZONTAL SYNC
H. AMP. SW	HEAD AMP SW PULSE
H. P <R>	HEAD PHONE (R)
H. P <L>	HEAD PHONE (L)
H. P GND	HEAD PHONE GND
H. P OUT [L]	HEAD PHONE OUTPUT (L)
H. P OUT [R]	HEAD PHONE OUTPUT (R)
H. SW	HEAD SW PULSE
HEAD PHONE [L]	HEAD PHONE (L)
HEAD PHONE [R]	HEAD PHONE (R)
HEAD SW	HEAD SW
HEATER [+]	HEATER (+)
HEATER [–]	HEATER (–)
HSS	HORIZONTAL SYNC SIGNAL
HTR [+]	HEATER (+)
HTR [–]	HEATER (–)
I RFE	REFERENCE CURRENT
ICL	CONTROL AGC CIRCUIT
IF	INTERMEDIATE FREQUENCY
IN SELA1	INPUT SELECT A1 POSITION
IN SELA2	INPUT SELECT A2 POSITION
IN SELA3	INPUT SELECT A3 POSITION
INS L/R [L]	INSERT Lch/Rch Ⓛ
INS. [H]	INSERT Ⓗ
INSEL A1	INPUT SELECT A1 POSITION
INSEL A2	INPUT SELECT A2 POSITION
INSERT	INSERT
INSERT [H]	INSERT Ⓗ
IO CS	INPUT/OUTPUT CHIP SELECT
JOG1	JOG1
JOG S3 LED/FOWRD	JOG LED/FORWARD LED
JOG/F. LED	JOG LED/FORWARD LED
JSB [H]	JSB Ⓗ
JST. CLCK	JUST CLOCK
JST. CLK	JUST CLOCK
JST. CLOCK	JUST CLOCK
L. OUT	Lch OUTPUT
L. CH [H]	Lch Ⓗ
L. CH [L]	Lch Ⓛ
LED (MAIN)	LED (MAIN)
LED (STEREO)	LED (STEREO)
LED (SUB)	LED (SUB)
LED CKL	LED SERIAL CLOCK
LED CKS	LED SERIAL CLOCK
LED DATA	LED SERIAL DATA
LINE IN 1 [L]	LINE INPUT 1 (L)
LINE IN 1 [R]	LINE INPUT 1 (R)
LINE IN 2 [L]	LINE INPUT 2 (L)
LINE IN 2 [R]	LINE INPUT 2 (R)
LINE IN V	LINE INPUT VIDEO
LINE IN [L]	LINE INPUT (L)

LINE IN [R]	LINE INPUT (R)
LINE OUT [L]	LINE OUTPUT (L)
LINE OUT [R]	LINE OUTPUT (R)
LP [H]	LP Ⓗ
LPTRI [L]	LP TRICK PLAY Ⓛ
Lch/A. DUB	Lch/AUDIO DUBBING
M GND	MOTOR GND
M REG	MOTOR REGULATOR
MAIN OUT	MAIN OUTPUT
MAIN [L]	MAIN Ⓛ
MAIN/MONO	MAIN/MONAURAL
MAX IN	MAXIMAM INPUT
MES [H]	MESECAM Ⓗ
MESE [H]	MESECAM Ⓗ
MESE [L]	MESECAM Ⓛ
METER 5V	LEVEL METER 5V
METER [L]	LEVEL METER (L)
METER [R]	LEVEL METER (R)
METER. L/AVS	LEVEL METER (L)
METER. R/AVC	LEVEL METER (R)
MI/BI [L]	MIX Ⓗ/BILIGUAL
MIC GND	MIC GND
MIC IN	MIC INPUT
MIC IN [L]	MIC INPUT (L)
MIC IN [R]	MIC INPUT (R)
MIC [H]	MIC Ⓗ
MIX [H]	MIX Ⓗ
MIX [H]/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ
MIX/CINE	MIX Ⓗ/CINEMA SOUND Ⓛ
MIX/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ
MN. H/M. L	MONAURAL Ⓗ/MAIN Ⓛ
MN. H/MAI. L	MONAURAL Ⓗ/MAIN Ⓛ
MN2/MES. L	MONAURAL 2/MESECAM Ⓛ
MODE SEL	AUDIO MODE SELECT
MODE SW	AUDIO MODE SW
MODE. S. IN	AUDIO MODE SELECT INPUT
MODE. S. OUT	AUDIO MODE SELECT OUTPUT
MONO [H]	MONAURAL Ⓗ
MONO [H]/MAIN [L]	MONAURAL Ⓗ/MAIN Ⓛ
MONO2 [L]	MONAURAL 2
MONO2/MESE [FM(L)]	MONAURAL 2/MESECAM (FM Ⓛ)
MOTOR GND	MOTOR GND
MUTE	MUTE
N. A. REC [L]	NORMAL AUDIO RECORDING
N. SW 12V	NON SW 12V
N. SW. 5. DET	NON SW 5V DETECT
NICAM	NICAM
NICAM [L]	NICAM Ⓛ
NOL [H]	PAL Ⓗ/4.43 NTSC Ⓜ/3.58 NTSC Ⓛ
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAY Ⓗ
NORMAL [H]	NORMAL Ⓗ
NR BIAS	NR BIAS
NTSC [L]	NTSC Ⓛ
OCH	CONTROL AGC CIRCUIT
OUT	OUTPUT

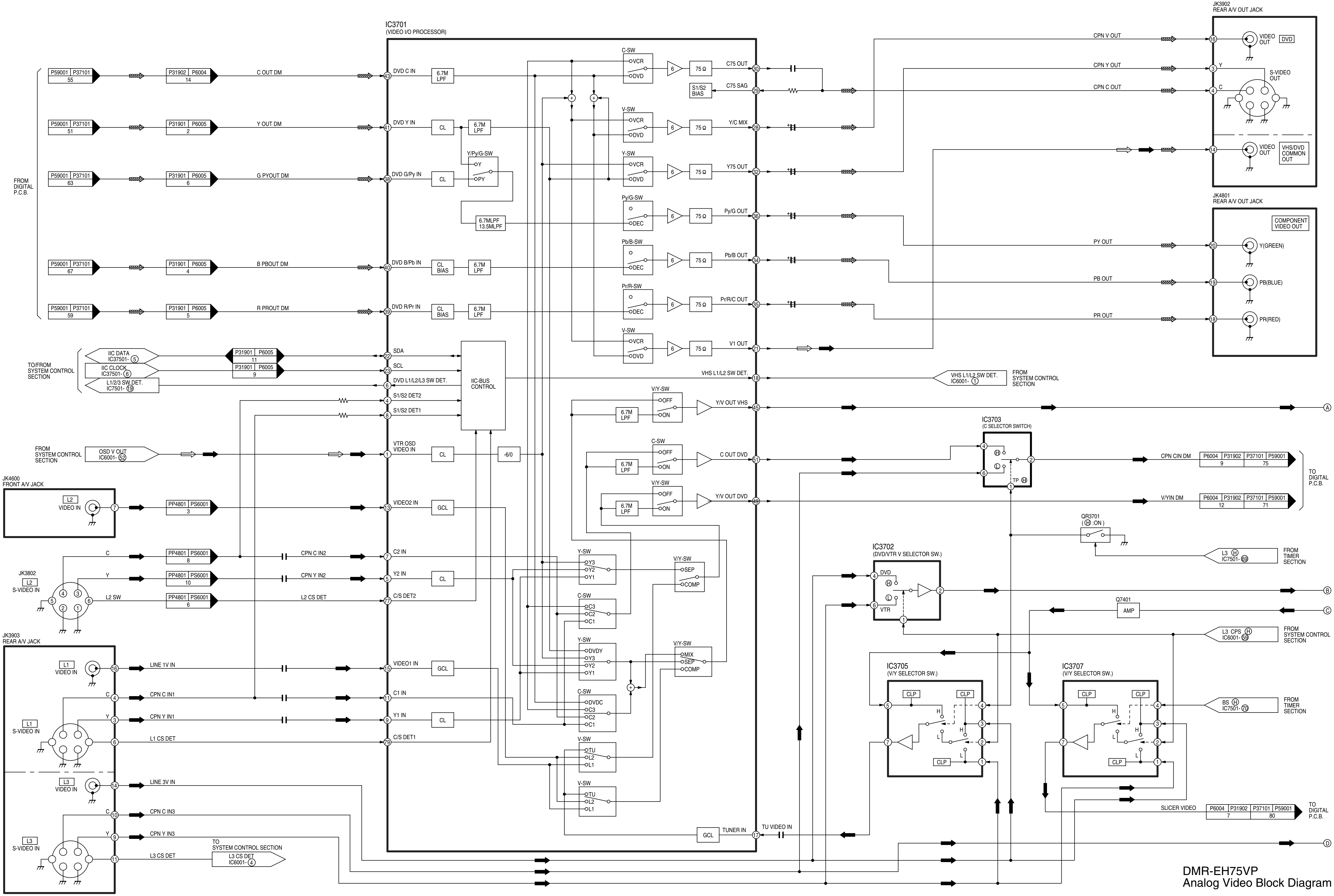
P-OFF [H]	POWER OFF Ⓗ
P-OFF [L]	POWER OFF Ⓛ
P. FAIL	POWER FAILURE DETECT
P. OFF [H]	POWER OFF Ⓗ
P. OFF [L]	POWER OFF Ⓛ
PAL [H]	PAL Ⓗ
PAL [L]/NTSC [H]	PAL Ⓛ/NTSC Ⓗ
PB ADJ OUT	PLAYBACK ADJUST OUTPUT
PB OUT	PLAYBACK OUTPUT
PB. H	PLAYBACK Ⓗ
PFG	PG/FG
PHOTSN +B	PHOTO SENSOR +B
PICT. CNT	PICTURE CONTROL
PLAY LED/RVS LED	PLAY LED/REVERSE LED
PLAY. PO	PLAY POSITION
PLAY/R. LED	PLAY LED/REVERSE LED
PLY/DEW	PLAY/DEW Ⓗ
POWER OFF [L]	POWER OFF Ⓛ
PREROLL [H]	PREROLL Ⓗ
PWRFAIL	POWER FAILURE DETECT
R. CH [H]	Rch Ⓗ
R. CH [L]	Rch Ⓛ
R. ST	RESET
R/S/F	REVERSE Ⓗ/STOP Ⓜ/FORWARD Ⓛ
RCH [H]	Rch Ⓗ
REC 12V	RECORDING 12V
REC CHROMA	RECORDING CHROMINANCE SIGNAL
REC H	RECORDING Ⓗ
REC IN	RECORDING INPUT
REC OUT [L]	RECORDING OUTPUT Ⓛ
REC START	RECORDING START
REC VR [C]	RECORDING VOLUME (COMMON)
REC VR [L]	RECORDING VOLUME (L)
REC VR [R]	RECORDING VOLUME (R)
REC Y	RECORDING LUMINANCE SIGNAL
REC [H]	RECORDING Ⓗ
REC. C	RECORDING CHROMINANCE SIGNAL
REC. Y	RECORDING LUMINANCE SIGNAL
REC/EE CTL	RECORDING/EE CONTROL
REEL-T	REEL PULSE (TAKE-UP)
REEL-S	REEL PULSE (SUPPLY)
REGULATOR FILTER	REGULATOR FILTER
RESET	RESET
REV M F/R	REVIEW MOTOR FORWARD/REVERSE
REV M V1	REVIEW MOTOR V1
REV M V2	REVIEW MOTOR V2
REV MOTOR F/R	REVIEW MOTOR FORWARD/REVERSE
REV MOTOR V1	REVIEW MOTOR V1
REV MOTOR V2	REVIEW MOTOR V2
REV MOTOR [+]	REVIEW MOTOR (+)
REV MOTOR [–]	REVIEW MOTOR (+)
REV. M. GND	REVIEW MOTOR GND
RF. CHROMA	RF CHROMINANCE SIGNAL

RF OUT	RF OUTPUT
RF Y	RF LUMINANCE SIGNAL
RF. Y. IN	RF LUMINANCE SIGNAL INPUT
RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT
ROTAR. SW	ROTARY SW
ROTARY	ROTARY SW
RST	RESET
RST [L]	RESET Ⓛ
Rch/INST	Rch/INSERT
S IN	SERIAL DATA INPUT
S OUT	SERIAL DATA OUTPUT
S-PHOTO	SUPPLY PHOTO TRANSISTOR
S-RL. PLS	SUPPLY REEL PULSE
S. CLK	SERIAL CLOCK
S. CLK/AV	SERIAL CLOCK/AV
S. DATA	SERIAL DATA
S. DATA/A	SERIAL DATA
S. PHOTO	SUPPLY PHOTO TRANSISTOR
S. TAB [L]	SAFETY TAB SW ON Ⓛ
S/P/N	SECAM/PAL/NTSC
SC IN	SERIAL CLOCK INPUT
SC OUT	SERIAL CLOCK OUTPUT
SCK SELECT	SERIAL CLOCK SELECT
SEL OUT [L]	SELECT OUTPUT (L)
SEL OUT [R]	SELECT OUTPUT (R)
SHUTTLE 1	SHUTTLE 1
SIF	SOUND INTERMEDIATE FREQUENCY
SLMUT [H]	INPUT SELECT MUTE Ⓗ
SLNID [+]	SOLENOID (+)
SLNID [–]	SOLENOID (–)
SLW TR. MM	SLOW TRACKING MONO MULTI
SLW TR. REF	SLOW TRACKING REFERENCE VOLTAGE
SNS. GND	SENSOR GND
SOFT [H]	SOFT TAPE PLAY Ⓗ
SOFT [H]/NORMAL	SOFT TAPE PLAY Ⓗ/NORMAL Ⓗ
SOLENOID ON [L]	SOLENOID ON Ⓛ
SP [H]	SP Ⓗ
SP/L/SLP	SP/LP
SSS [L]	SLOW/STILL/STOP
STEREO LED	STEREO LED
STEREO [H]	STEREO Ⓗ
STEREO [L]	STEREO Ⓛ
STOP. PO	STOP POSITION
STOP/5V	STOP POSITION/5V
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT
STOP1/PAL:ST	STOP1 POSITION/PAL
STOP2. PO	STOP 2 POSITION
STOP2/S-TAB	STOP 2 POSITION/SAFETY TAB SW
STREO [H]	STEREO Ⓗ
SUB BIAS	SUB BIAS
SUB. SW	SUB SW
SVHS CAS [L]	S-VHS CASSETTE Ⓛ
SW. 5. DET	SW 5V DETECT
SYNC [L]	SYNC Ⓛ

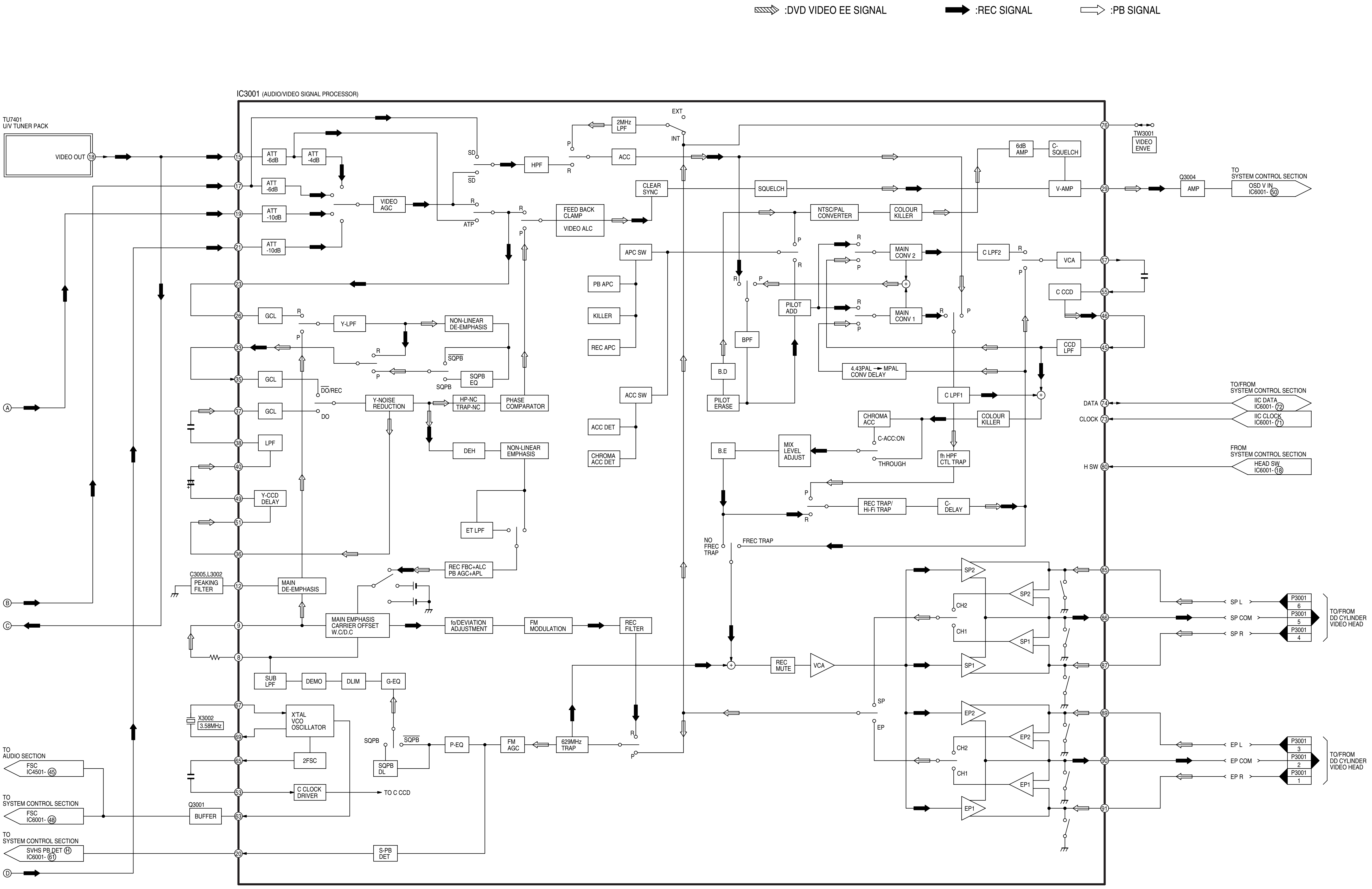
SYSCON 5V	SYSTEM CONTROL 5V
SYSTEM	SYSTEM SW
T-PHOTO	TAKE-UP PHOTO TRANSISTOR
T-RL. PLS	TAKE-UP REEL PULSE
T. BUSCLK	TIMER BUS CLOCK
T. BUSLSN	TIMER BUS LISTEN
T. BUSTLK	TIMER BUS TALK
T. END [L]	TAPE END Ⓛ
T. PHOTO	TAKE-UP PHOTO TRANSISTOR
TAPE END [L]	TAPE END Ⓛ
TAPE END [L]/CAM	TAPE END Ⓛ/CAMERA PAUSE
TEST	TEST MODE
TPZ	TRAPEZOIDAL WAVE CIRCUIT
TRIC [L]	TRIC PLAY Ⓛ
TRICK [L]	TRIC PLAY Ⓛ
TRK. ENV	AUTO TRACKING ENVELOPE DETECT
TU. AUDIO	TUNER AUDIO
TU. GND	TUNER GND
TU. V. IN	TUNER VIDEO SIGNAL INPUT
TU. VIDEO	TUNER VIDEO
TUN NOR IN	TUNER NORMAL INPUT
TUN R	TUNER AUDIO (R)
TUN. AUDIO IN	TUNER AUDIO INPUT
TUNER 12V	TUNER 12V
TUNER L	TUNER AUDIO (L)
TUNER V IN	TUNER VIDEO SIGNAL INPUT
TUNER [L]	TUNER AUDIO (L)
TUNER [N]	TUNER AUDIO (NORMAL)
TUNER [R]	TUNER AUDIO (R)
TUNER. 12	TUNER 12V
TUOFF [H]	TUNER OFF Ⓗ
TV. AUDIO	TV AUDIO
TV/VTR	TV/VTR
TXTON [L]	TEXT ON Ⓛ
U. REG45V	UNREGULATOR 45V
UNREG	UNREGULATOR
UNREG19V	UNREGULATOR 19V
V. REF	REFERENCE VOLTAGE
V. EE [H]	VIDEO EE Ⓗ
V. EE [L]	VIDEO EE Ⓛ
VCO REF	REFERENCE OSCILLATER
VD. IN	VIDEO SIGNAL INPUT
VD. OUT	VIDEO SIGNAL OUTPUT
VIDEO EE [L]	VIDEO EE Ⓛ
VIDEO IN	VIDEO SIGNAL INPUT
VIDEO OUT	VIDEO SIGNAL OUTPUT
VM	MOTOR VOLTAGE
VM DOWN [L]	MOTOR VOLTAGE DOWN Ⓛ
VSS	VERTICAL SYNC SIGNAL
VTR [H]	VTR Ⓗ
VTR. 12V	VTR 12V
X IN	OSCILLATOR INPUT
X OUT	OSCILLATOR OUTPUT

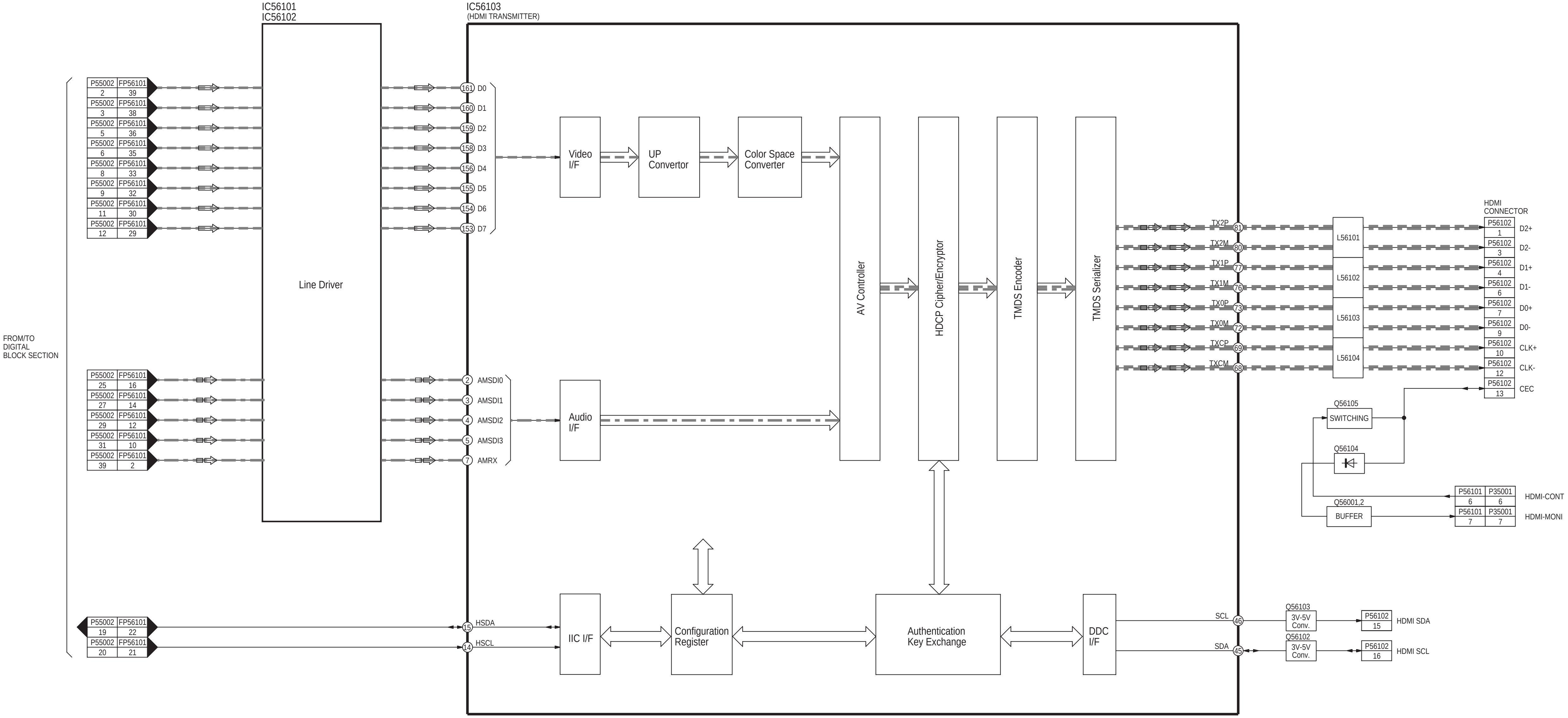

DVD AUDIO SIGNAL
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
IC4501
(AUDIO PROCESSOR)
IC3001
(AUDIO PROCESSOR)
NORMAL SELECT SWITCH
INPUT SELECT SWITCH RCH
INPUT SELECT SWITCH LCH
OUTPUT SELECT SWITCH R CH
OUTPUT SELECT SWITCH L CH
AGC & SWITCH
PNR R CH
PNR L CH
SW NOISE
FM MODULATOR/ DEMODULATOR
LPF
BPF
AGC
HOLD TIMING
PREAMP & SWITCH
IIC BUS INTERFACE
VCA
fh TRAP
REC EQ.
PRE AMP
R
P
Q4001, Q4002
PB H:ON
QR4001
L:ON
A+5V
D.REC H IC6001-⑳
FROM SYSTEM CONTROL SECTION
P4002 4
P4002 3
A.HEAD(R)
A.HEAD(W)
TO/FROM A/C HEAD
JK3903 (REAR JACK)
IN (R)
IN (L)
L1
L3
JK4600 (FRONT JACK)
L2
IN L/ MONO
PP4801 PS6001 7
PP4801 PS6001 5
TUN R
L1 IN R
DVD R
L1 IN L
L2 IN R
TUN L
L2 IN L
DVD L
VCO FO
MUTE CTL
FM MIX TW4501
ENVE TW4502
JK3902 REAR JACK
VHS/DVD COMMON OUT
OUT (R)
OUT (L)
LINE
QR4808 RCH MUTE
QR4808 LCH MUTE
QR4807 MUTE DRIVE
QR4806 MUTE
QR4809 MUTE DRIVE
FSC IC3001-㊸
FROM VIDEO SECTION
COM MUTE
COMMON MUTE H IC6001-㊸
FM MUTE H IC6001-㉘
AUDIO HEAD SW IC6001-⑲
D.REC H IC6001-⑳
FROM SYSTEM CONTROL SECTION
P3001 7
P3001 8
P3001 9
Hi-Fi AUDIO HEAD
TO/FROM SYSTEM CONTROL
IIC CLOCK IC6001-⑰
IIC DATA IC6001-⑫
TU7401 U/V TUNER
SIF OUT
FL7301
IC7301 (AUDIO MULTIPLEX DECODER)
INPUT
R OUT
L OUT
IC4802 (L3/TU SELECTOR SW)
Y1 Y3 X1 X3 Y X
L3 H IC7501-㊾
QR4810 INV.
IC3701 (AUDIO BUFFER & SELECTOR SWITCH)
TUNER IN R
TUNER IN L
L1 IN R
L1 IN L
L2 IN R
L2 IN L
INPUT SELECTOR SWITCH
L CH
R CH
VCR TU L2 L1
DVD
P-ON MUTE
VHS R
VHS L
ADC R
ADC L
P6003 P31903 18
P6003 P31903 19
P37101 P59001 31
P37101 P59001 29
TO DIGITAL P.C.B.
LINE OUT R
LINE OUT L
QR4802 MUTE
QR4801, QR4803 MUTE DRIVE
QR4804
X SW5.8V
QR4805 MUTE
FROM TIMER SECTION
XTMUTE L IC7501-⑩
FROM DIGITAL P.C.B.
P59001 P37101 P31902 P6004 27 6
XDMUTE
JK3902 REAR OUTPUT JACK
DVD
DVD OUT R
DVD OUT L
TO/FROM DIGITAL P.C.B.
P59001 P37101 38
P59001 P37101 36
P31901 P6005 9
P31901 P6005 11
I2C5CK
I2C5DT
P59001 P37101 41
P59001 P37101 39
MIX R OUT DM
MIX L OUT DM
P31902 P6004 2
P31902 P6004 5
QR4814 MUTE
QR4813
JK4801 DIGITAL AUDIO OUT
PCM/ BITSTREAM
P59001 P37101 P31901 P6005 44 8
IECOUT
IEC OUT

DMR-EH75VP
Analog Audio Block Diagram

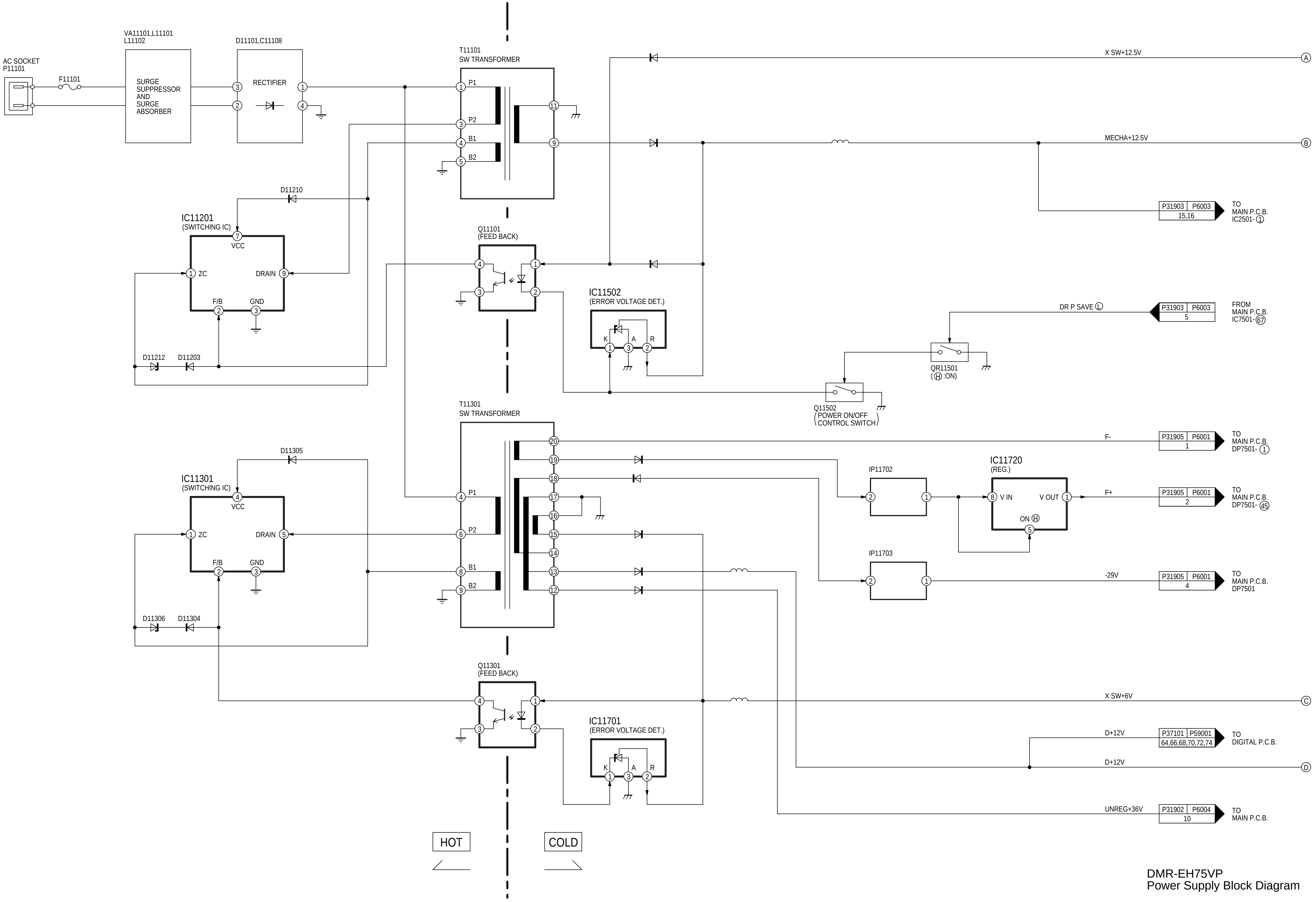

IC3701
(VIDEO I/O PROCESSOR)
FROM DIGITAL P.C.B.
P59001 P37101 55
P31902 P6004 14
C OUT DM
P59001 P37101 51
P31901 P6005 2
Y OUT DM
P59001 P37101 63
P31901 P6005 6
G PYOUT DM
P59001 P37101 67
P31901 P6005 4
B PBOUT DM
P59001 P37101 59
P31901 P6005 5
R PROUT DM
DVD C IN
DVD Y IN
DVD G/Py IN
DVD B/Pb IN
DVD R/Pr IN
6.7M LPF
CL
CL BIAS
Y/Py/G-SW
Y
PY
6.7MLPF 13.5MLPF
C-SW
V-SW
Y-SW
Py/G-SW
Pb/B-SW
Pr/R-SW
VCR
DVD
DEC
75 Ω
6
S1/S2 BIAS
C75 OUT
C75 SAG
Y/C MIX
Y75 OUT
Py/G OUT
Pb/B OUT
Pr/R/C OUT
V1 OUT
VHS L1/L2 SW DET.
TO/FROM SYSTEM CONTROL SECTION
IIC DATA IC37501- ⑤
IIC CLOCK IC37501- ⑥
L1/2/3 SW DET. IC7501- ⑲
P31901 P6005 11
P31901 P6005 9
SDA
SCL
DVD L1/L2/L3 SW DET.
S1/S2 DET2
S1/S2 DET1
IIC-BUS CONTROL
FROM SYSTEM CONTROL SECTION
OSD V OUT IC6001- ㊾
VTR OSD VIDEO IN
-6/0
JK4600 FRONT A/V JACK
L2 VIDEO IN
PP4801 PS6001 3
VIDEO2 IN
GCL
JK3802
L2 S-VIDEO IN
C
Y
L2 SW
PP4801 PS6001 8
PP4801 PS6001 10
PP4801 PS6001 6
CPN C IN2
CPN Y IN2
L2 CS DET
C2 IN
Y2 IN
C/S DET2
JK3903 REAR A/V JACK
L1 VIDEO IN
L1 S-VIDEO IN
L3 VIDEO IN
L3 S-VIDEO IN
LINE 1V IN
CPN C IN1
CPN Y IN1
L1 CS DET
LINE 3V IN
CPN C IN3
CPN Y IN3
L3 CS DET
TO SYSTEM CONTROL SECTION
L3 CS DET IC6001- ④
VIDEO1 IN
C1 IN
Y1 IN
C/S DET1
TUNER IN
TU VIDEO IN
V/Y-SW
OFF
ON
Y/V OUT VHS
C OUT DVD
Y/V OUT DVD
Y3 Y2 Y1
C3 C2 C1
SEP
COMP
DVDY
MIX
DVDC
TU L2 L1
JK3902 REAR A/V OUT JACK
CPN V OUT
VIDEO OUT
DVD
CPN Y OUT
CPN C OUT
S-VIDEO OUT
VHS/DVD COMMON OUT
JK4801 REAR A/V OUT JACK
COMPONENT VIDEO OUT
PY OUT
PB OUT
PR OUT
Y(GREEN)
PB(BLUE)
PR(RED)
FROM SYSTEM CONTROL SECTION
VHS L1/L2 SW DET. IC6001- ①
IC3703
(C SELECTOR SWITCH)
TP Ⓗ
CPN CIN DM
P6004 P31902 P37101 P59001 9 75
V/YIN DM
P6004 P31902 P37101 P59001 12 71
TO DIGITAL P.C.B.
QR3701
(Ⓗ:ON)
L3 Ⓗ IC7501- ㊿
FROM TIMER SECTION
IC3702
(DVD/VTR V SELECTOR SW.)
VTR
Q7401
AMP
L3 CPS Ⓗ IC6001- (59)
FROM SYSTEM CONTROL SECTION
IC3705
(V/Y SELECTOR SW.)
IC3707
(V/Y SELECTOR SW.)
CLP
H
L
BS Ⓗ IC7501- (70)
FROM TIMER SECTION
SLICER VIDEO
P6004 P31902 P37101 P59001 7 80
TO DIGITAL P.C.B.
A
B
C
D

DMR-EH75VP
Analog Video Block Diagram

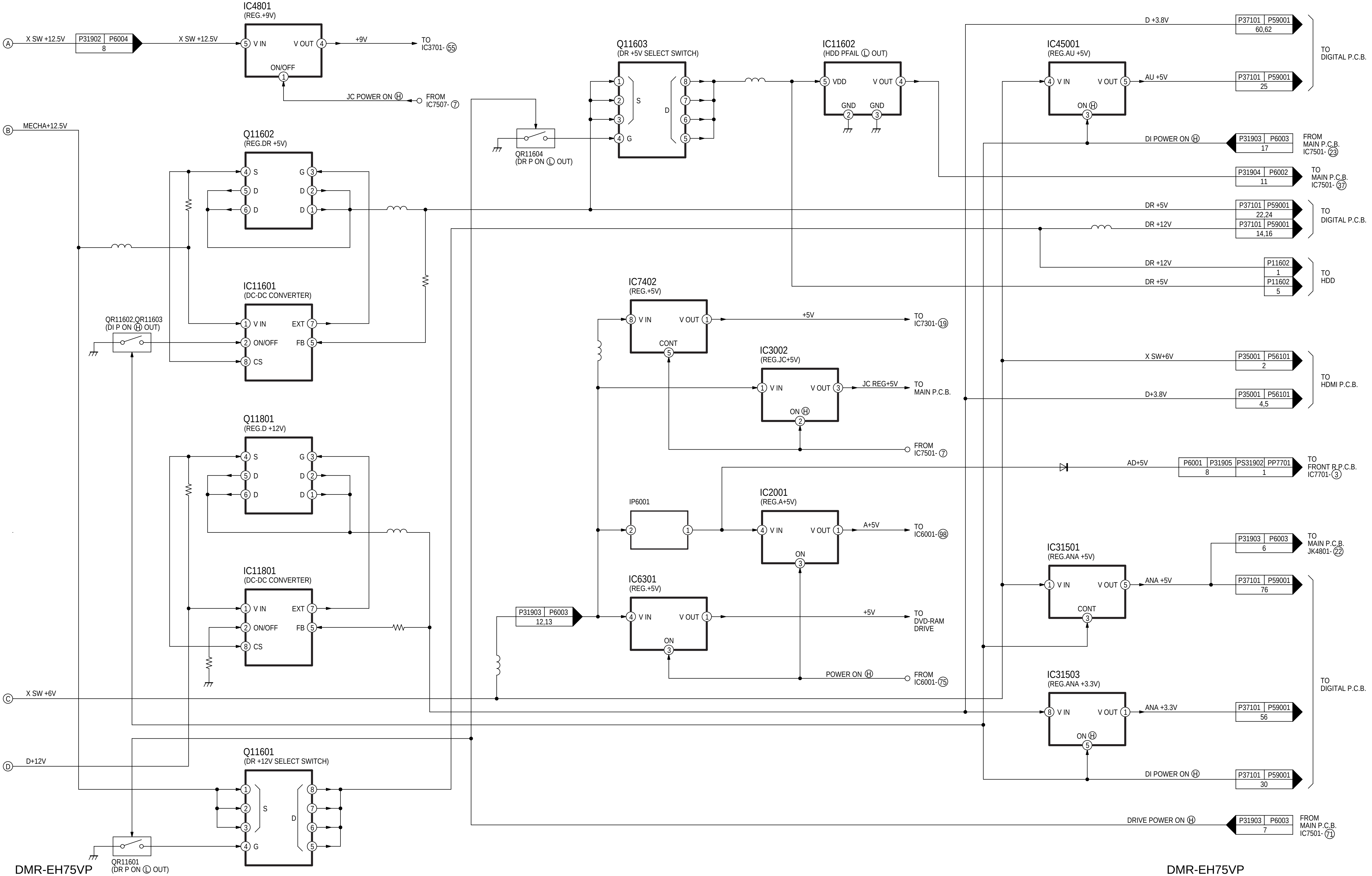

:DVD VIDEO EE SIGNAL
:REC SIGNAL
:PB SIGNAL
IC3001 (AUDIO/VIDEO SIGNAL PROCESSOR)
TU7401
U/V TUNER PACK
VIDEO OUT 18
ATT -6dB
ATT -4dB
ATT -6dB
ATT -10dB
ATT -10dB
VIDEO AGC
SD
SD
ATP
HPF
2MHz LPF
EXT
INT
ACC
CLEAR SYNC
FEED BACK CLAMP
VIDEO ALC
SQUELCH
NTSC/PAL CONVERTER
COLOUR KILLER
6dB AMP
C-SQUELCH
V-AMP
TW3001
VIDEO ENVE
Q3004
AMP
TO SYSTEM CONTROL SECTION
OSD V IN IC6001- 50
APC SW
PB APC
KILLER
REC APC
ACC SW
ACC DET
CHROMA ACC DET
MAIN CONV 2
MAIN CONV 1
PILOT ADD
BPF
C LPF2
VCA
C CCD
CCD LPF
4.43PAL → MPAL CONV DELAY
B.D
PILOT ERASE
C LPF1
COLOUR KILLER
CHROMA ACC
C-ACC:ON
THROUGH
MIX LEVEL ADJUST
B.E
fh HPF CTL TRAP
REC TRAP/ Hi-Fi TRAP
C-DELAY
NO FREC TRAP
FREC TRAP
TO/FROM SYSTEM CONTROL SECTION
DATA 74
IIC DATA IC6001- 72
CLOCK 73
IIC CLOCK IC6001- 71
FROM SYSTEM CONTROL SECTION
H SW 80
HEAD SW IC6001- 18
GCL
Y-LPF
NON-LINEAR DE-EMPHASIS
SQPB
SQPB EQ
GCL
DO/REC
Y-NOISE REDUCTION
HP-NC TRAP-NC
PHASE COMPARATOR
GCL
DO
LPF
DEH
NON-LINEAR EMPHASIS
Y-CCD DELAY
ET LPF
REC FBC+ALC PB AGC+APL
C3005,L3002
PEAKING FILTER
MAIN DE-EMPHASIS
MAIN EMPHASIS CARRIER OFFSET W.C/D.C
fo/DEVIATION ADJUSTMENT
FM MODULATION
REC FILTER
SUB LPF
DEMO
DLIM
G-EQ
X3002
3.58MHz
X'TAL VCO OSCILLATOR
2FSC
C CLOCK DRIVER
TO C CCD
SQPB
SQPB DL
P-EQ
FM AGC
629MHz TRAP
S-PB DET
Q3001
BUFFER
REC MUTE
VCA
SP
EP
SP2
SP2
CH2
CH1
SP1
SP1
EP2
EP2
EP1
EP1
SP L
SP COM
SP R
EP L
EP COM
EP R
P3001 6
P3001 5
P3001 4
P3001 3
P3001 2
P3001 1
TO/FROM DD CYLINDER VIDEO HEAD
TO/FROM DD CYLINDER VIDEO HEAD
TO AUDIO SECTION
FSC IC4501- 45
TO SYSTEM CONTROL SECTION
FSC IC6001- 48
TO SYSTEM CONTROL SECTION
SVHS PB DET H IC6001- 61
A
B
C
D
15
17
19
21
23
26
33
35
37
38
40
49
51
36
12
9
8
67
69
65
53
63
20
76
29
57
55
46
45
85
86
87
89
90
91
R
P


IC56101
IC56102
Line Driver
IC56103
(HDMI TRANSMITTER)
FROM/TO
DIGITAL
BLOCK SECTION
P55002 2 FP56101 39
P55002 3 FP56101 38
P55002 5 FP56101 36
P55002 6 FP56101 35
P55002 8 FP56101 33
P55002 9 FP56101 32
P55002 11 FP56101 30
P55002 12 FP56101 29
P55002 25 FP56101 16
P55002 27 FP56101 14
P55002 29 FP56101 12
P55002 31 FP56101 10
P55002 39 FP56101 2
P55002 19 FP56101 22
P55002 20 FP56101 21
161 D0
160 D1
159 D2
158 D3
156 D4
155 D5
154 D6
153 D7
2 AMSDI0
3 AMSDI1
4 AMSDI2
5 AMSDI3
7 AMRX
15 HSDA
14 HSCL
Video I/F
UP Convertor
Color Space Converter
Audio I/F
AV Controller
HDCP Cipher/Encryptor
TMDS Encoder
TMDS Serializer
IIC I/F
Configuration Register
Authentication Key Exchange
DDC I/F
TX2P 81
TX2M 80
TX1P 77
TX1M 76
TX0P 73
TX0M 72
TXCP 69
TXCM 68
L56101
L56102
L56103
L56104
HDMI
CONNECTOR
P56102 1 D2+
P56102 3 D2-
P56102 4 D1+
P56102 6 D1-
P56102 7 D0+
P56102 9 D0-
P56102 10 CLK+
P56102 12 CLK-
P56102 13 CEC
Q56105
SWITCHING
Q56104
Q56001,2
BUFFER
P56101 6 P35001 6 HDMI-CONT
P56101 7 P35001 7 HDMI-MONI
SCL 46
SDA 45
Q56103
3V-5V Conv.
Q56102
3V-5V Conv.
P56102 15 HDMI SDA
P56102 16 HDMI SCL

DMR-EH75VP
HDMI Block Diagram


AC SOCKET
P11101
F11101
VA11101,L11101
L11102
SURGE
SUPPRESSOR
AND
SURGE
ABSORBER
D11101,C11108
RECTIFIER
T11101
SW TRANSFORMER
P1
P2
B1
B2
X SW+12.5V
MECHA+12.5V
P31903
P6003
15,16
TO
MAIN P.C.B.
IC2501-①
D11210
IC11201
(SWITCHING IC)
VCC
ZC
DRAIN
F/B
GND
Q11101
(FEED BACK)
IC11502
(ERROR VOLTAGE DET.)
K
A
R
DR P SAVE Ⓛ
P31903
P6003
5
FROM
MAIN P.C.B.
IC7501-(67)
QR11501
(Ⓗ:ON)
D11212
D11203
Q11502
POWER ON/OFF
CONTROL SWITCH
T11301
SW TRANSFORMER
F-
P31905
P6001
1
TO
MAIN P.C.B.
DP7501-①
D11305
IC11301
(SWITCHING IC)
VCC
ZC
DRAIN
F/B
GND
IP11702
IC11720
(REG.)
V IN
V OUT
ON Ⓗ
F+
P31905
P6001
2
TO
MAIN P.C.B.
DP7501-(45)
IP11703
-29V
P31905
P6001
4
TO
MAIN P.C.B.
DP7501
D11306
D11304
Q11301
(FEED BACK)
X SW+6V
IC11701
(ERROR VOLTAGE DET.)
K
A
R
D+12V
P37101
P59001
64,66,68,70,72,74
TO
DIGITAL P.C.B.
D+12V
UNREG+36V
P31902
P6004
10
TO
MAIN P.C.B.
HOT
COLD
Ⓐ
Ⓑ
Ⓒ
Ⓓ

DMR-EH75VP
Power Supply Block Diagram


A
X SW +12.5V
P31902 P6004 8
X SW +12.5V
IC4801
(REG.+9V)
V IN
V OUT
ON/OFF
+9V
TO IC3701-(55)
JC POWER ON Ⓗ
FROM IC7507-⑦
B
MECHA+12.5V
Q11602
(REG.DR +5V)
S G D D D D
QR11602,QR11603
(DI P ON Ⓗ OUT)
IC11601
(DC-DC CONVERTER)
V IN
EXT
ON/OFF
FB
CS
Q11801
(REG.D +12V)
IC11801
(DC-DC CONVERTER)
C
X SW +6V
D
D+12V
Q11601
(DR +12V SELECT SWITCH)
QR11601
(DR P ON Ⓛ OUT)
Q11603
(DR +5V SELECT SWITCH)
QR11604
(DR P ON Ⓛ OUT)
IC11602
(HDD PFAIL Ⓛ OUT)
VDD
V OUT
GND
GND
IC7402
(REG.+5V)
CONT
+5V
TO IC7301-⑲
IC3002
(REG.JC+5V)
ON Ⓗ
JC REG+5V
TO MAIN P.C.B.
FROM IC7501-⑦
IP6001
IC2001
(REG.A+5V)
ON
A+5V
TO IC6001-(98)
IC6301
(REG.+5V)
P31903 P6003 12,13
+5V
TO DVD-RAM DRIVE
POWER ON Ⓗ
FROM IC6001-(75)
D +3.8V
P37101 P59001 60,62
TO DIGITAL P.C.B.
IC45001
(REG.AU +5V)
AU +5V
P37101 P59001 25
DI POWER ON Ⓗ
P31903 P6003 17
FROM MAIN P.C.B. IC7501-㉓
P31904 P6002 11
TO MAIN P.C.B. IC7501-(37)
DR +5V
P37101 P59001 22,24
DR +12V
P37101 P59001 14,16
TO DIGITAL P.C.B.
DR +12V
P11602 1
DR +5V
P11602 5
TO HDD
X SW+6V
P35001 P56101 2
D+3.8V
P35001 P56101 4,5
TO HDMI P.C.B.
AD+5V
P6001 P31905 PS31902 PP7701 8 1
TO FRONT R P.C.B. IC7701-③
IC31501
(REG.ANA +5V)
ANA +5V
P31903 P6003 6
TO MAIN P.C.B. JK4801-㉒
P37101 P59001 76
IC31503
(REG.ANA +3.3V)
ANA +3.3V
P37101 P59001 56
TO DIGITAL P.C.B.
DI POWER ON Ⓗ
P37101 P59001 30
DRIVE POWER ON Ⓗ
P31903 P6003 7
FROM MAIN P.C.B. IC7501-(71)

DMR-EH75VP
Power Supply Block Diagram

DMR-EH75VP
Power Supply Block Diagram